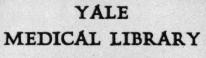




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THE GIFT OF LUCIA P. FULTON





HISTORICÁL LIBRÁRY

THE GIFT OF LUCIA P. FULTON

THEORETICAL Chiefly Practical TREATISE OF FEVORS.

Wherein it's made Evident, that the Modern Practice of curing continual Fevors is dangerous and very unfuccessful.

Hereunto are added feveral Important Observations and Cures of Malignant Fevors, not inserted in the former Impression.

Written in Latin by Gideon Harvey, M. D. Phylician in Ordinary to his Majesty.

Now rendered into English by J. T. and Surveyed by the Author.

LONDON, Printed for William Thackersy at the Angel in Duck-Lane. 1674.





Physical Reader.

Have long since observed, that Physicians did not cure continual Fevors, but rather did render them mortal: Though, if by good fortune any one hath been delivered of a Fevor, it is only to be imputed to the strength of nature, which if she had not been disturbed by improper means, would have distintangled her self from the disease much sooner, and with less danger.

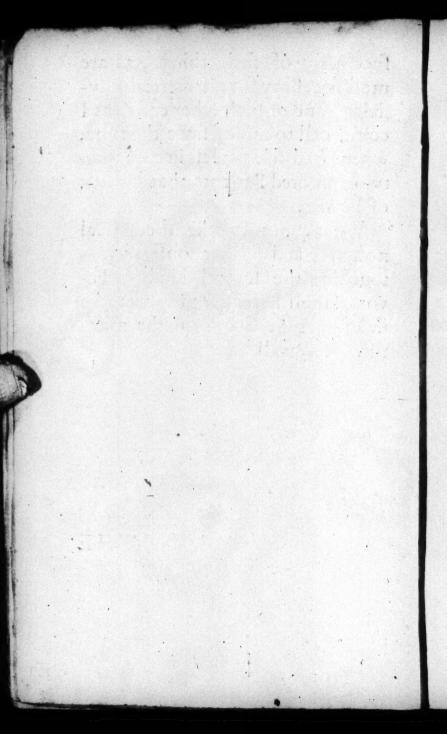
The cause of this so unfortunate practice depends on a false supposi-

tion of fermentation, whence fince they desume erroneous indications, the success must necessarily frustrate their expectation. I confess I have made use of the term of fermentation in several Treatises, and possibly in the illustration of Fevors, but to this intent only, that I might in some manner be complaisant to the received opinion of the times, not in the least imagining the notion thereof necessary, or contributing any whit to the knowledge or cure of Fevors. Moreover the Reader is to take notice, that at present I have not written or acted the part of a Professor in the Chair, making a Methodical and Pedantick Lecture on the definition, division, next the causes, then the Diagnostick, and afterward the Prognostick signs of Fevors, &c. But it is my purpose, to discourse Sucfuccinctly of such things, as are most necessary for a Practical Physician, and of such other cases, as I could call to mind, since the time, when I had seldom less in cure than two hundred Patients that lay sick of Fevors.

What concerns other theoretical notions, and farther observations touching the several kinds of Fevors, Ishall hereaster propose them in distinct Sections; in the mean time, farewell.

Hatton Street near Holborn.

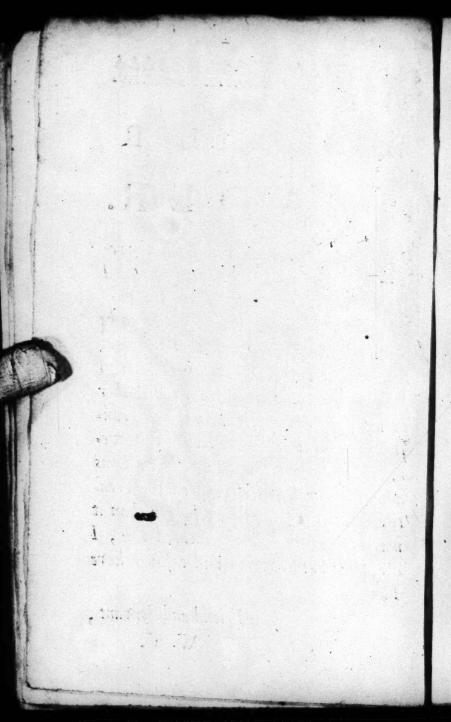
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BOOKSELLER TO THE READER.

Aking my measures from the reception of the Latin Copies, I
judged I should do the publick service in causing this Treatise to be
faithfully translated; and that it might
be attended with a greater welcom, I
have obtained the favor from the Author
to make a superficial survey of the Translation, and to insert the addition of very remarkable and important observations
and cures, which have rendred the Treatise at least a fourth part bigger than it
was before; in having procured this, I
doubt not but that you will easily believe
I am,

your Friend and Servant, W. T.





A

Theoretical and Practical

TREATISE

OF

FEVORS.

CHAP. I.

Of the Nature of Innate Heat.

T is usual among Authors, to derive the name, they intend to impose upon the distempers of parts, from the chiefest symptom, whence the word Febris, (or Fevor) being taken from fervor, i.e. hear, or from februa, a sort of fiery sacrifices of the Antients, or from the verb B

februo, i, e. I cleanse, likewise appros in Greeka Fevor, from n'ave a fire, seem to be applied to this distemper. The word Fevor in English is certainly derived from fervor, heat, only leaving out the r, and therefore ought to be written Fevor, and not Fever, unless you derive it from the French word, sever, by omitting the i.

Wherefore what this fervor or heat, or fire signifie, will best appear by conferring with them the words Calor warmth, and Calidum heat, being their opposits: from warmth Calor, and heat Calidum we have our strength and live, but through Fervor a destructive heat and fire, we lose our

strength and end our days.

It will much conduce to our purpose I judge, to premise the difference of these words. Calidum heat denotes a hot essence or substance, but Calor warmth signifieth only a quality separable from its subject or hot nature by our thoughts or concept, and not really, though separates or heat, and sequal Calor warmth, are by Hippocrates used in the same sense. Neither are you to imagine, that in seeling of Pulses of such as are ill of a Fevor, it is not the quality of heat, but siery steems, bodies, really physical, do strike your hand and ends

of your fingers. To wie fire is by Hippocrates expounded the Innate Heat of man, but among the Latines generally a Fevor; whence a Fevor may be commodiously defined, A fire kindled out of the Innate heat of the body, chiefly of the heart, (but fecundarily:) Wherefore that the heart and its constitutive principle, is the part, for the most times hurt, is evident, from the fevorish affection, and life (the proper action of the heart,) being immediately opprest, from the inordinate pulse, a sudden decay of strength, and the actions of the whole œconomy being very confiderably, and all at once depravated, and diminisht. The experience of those, that have put their finger into the ventricles of the heart (the breast being suddenly opened) of malefactors, who by fentence have had their head cut off, and have extracted it again thence very hot, doth confirm, that the Calidum, or heat of the heart, is a substance really burning about its chambers, and thence diffusing flames, through the articles, to the circumference. If on the other fide, the destructive nature of a burning heat be objected, it's not material, confidering the burning, or flaming of brimstone, or spirit of wine, whose purity of flame will not burn burn those bodies it touches, especially when through graduation of the air, it may be moderated to any tone of heat or warmth.

Furthermore, I state the Cationing Cords, or heat of the heart, to be a Bitumenreally ethereal and vital, most exactly defecated or refined, dispersing every where its mest subtile and pure flames, and feeding on the most pure and flowring particles of the blood. But fince it's difficult, to gain an universal affent, that the nature of blood, excercifing to flender a commerce with the air, and limited within the narrow bounds of the heart and arteries, should be convertible into a flame, and a perpetual warmth, it may be rendred obvious by this only instance; Namely, almost all subterraneous waters, that partake of a continual heat, as the water of Aix la Chapelle, Bathe, and of other hot Baths, fince they fource out of the deepest and most remote bosoms of the earth, just in the same manner doth the indefatigable foring of vegetative, or living blood, leap very hot out of the bosom of the heart into the arteries, like rivulets; and certainly, that which by natural Philosophers is afferted to be the cause of heat in those waters, may may easily be imposed upon me, to believe the same, to be the cause of hear in the blood, namely a Bitumen, but not Sulphur, being immediately extinguish by water; nor calx viva or lime, there being no such sury of heat discoverable in the caverns of the earth, as is requisite for its generation.

Wherefore in Bitumen only may be found a heat that is constant, and scarce to be extinguish; for by water it's apt to be kindled into a higher stame, and to be

nourisht by oyl, and oylie bodies.

It is then in the heart where nature hath placed an abounding fountain of vital Bitumen, on the purity and continuity of whose slame, life it self doth depend. Neither must it be asserted, that so great a proportion of this doth flow from the heart, as to suffice to protract the life of it, and of the whole structure, for so many years, but that it doth daily attract a bituminous nutriment from the streaming blood, which being kindled into vital flames, is by means of the pulse distributed into the rest of the small chanels of the body. It must also be observed, that all what we eat, or drink, the chyle and the blood do contain a certain proportion of Bitumen.

Bitumen, and as much hereof, as there is abounding in them, so much they are capable of being serviceable to the heart.

At present must be explained, what, and of what quality this Bitumen is; namely a body grown out of a fulphureous oyl and a Colophony, into a thick, liquable, and inflamable suostance. Such by distillation it's also discovered to be in the analytick parts of the blood of a living creature; to wit, an oyl fwimming a top the phlegm, and a colophony with a part of fixed falt, fetled in the body of the glass-gourd, withall a volatil falt paffing the Alembick with the oyl; which later, namely the volatil falt, it is, that adds to the whole mixt body all its strength and power; not unlike Gunpowder, whose Nitro-salin particles being rendred volatil, through virtue of the fire, do affume so great a force, that they strike any object whatfoever I with the greatest alteration and the smartest blow imaginable, when in the mean while the brimstone, and the charcoal-dust, only supply the place of a foporous matter. From what hath been faid, the manner of the pulses may commodiously be extracted; only conceiving, that the Bitumen of the heart, burning until the period of life, and pour'd from the ascending

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A Theory of Febors.

ascending vena cava into the lest ventricle, doth kindle the blood into a slame, by vertue whereof the nitro-salin salt being blown into most volatile forcible particles, is like Lightning, or Gun-powder discharged out of a Gun, propelled as it were by an elastick force into the Great and other Arteries.

CHAP. II.

Concerning the differences of Pulses and their causes.

of the Waters of the Sea, would prove a task less difficult, than that of the pulsations of the Heart and Arteries, which are subject to be altered by every passion, wind, and disease; though Galen indeed counted them, as if he had blown them out at his singers ends, among which notwithstanding scarce every third difference can be distinguished by the seeling of a Spider. Wherefore I shall only discourse of such, which every one may almost discern in Fevors.

In the Pulse I use to mind, first, the strength or force, next the swiftness of motion, and thirdly the equality. From the strength a pulse is called strong or weak; hereunto are accounted a great pulse (to wit, full and ftrong) and small, namely empty and weak: the cautes of the strength of the pulse I state to be the abundance of volatil falt, being vigoroufly and fmartly discharged through the pulse of the blood, and the strength of the fibres being well nourisht with the moisture of the brain. On the contrary, the defect of falt, and emptiness of the fibres caute a weak pulse. Here it's worthy of your observance, that the pulse in some sevorish Patients is found much stronger, than it was in their state of health: and, what is more, in some, who were reduced to fo low an ebb of strength, that they were scarce able to keep death a day from their door. I remember, their pulse would beat the tops of ones fingers finartly, which notwithstanding in my opinion, ought not to be called a strong pulse, but violent; for the vital faculty being irritated, by a corroding and reverberated kind of falt, is forced into those violent pulfations; whence falling at last into a very in all and most quick pulse, is immediately

diately attended with an Asphyxia, or ceafing of pulsation. It is an easie business, to distinguish a violent pulse from a strong; the former doth come full to the fingers, the later empty. Secondly, I have oft met with a weak pulse in such as lay sick of Fevors, that they seemed not to be able to hold out two days, which notwithstanding have for a fortnight, or twenty days, strove very successfully with the dilease. This pulse proceeds from a thick and moist blood, which by a continuated rarefaction, and reiterated circulation, being advanced to a higher degree of concoction, doth revive the vital faculty, whilst in the mean time, there hath been sustained no great loss of volatil falt in those weak pulsations. I have many times taken notice of this case in women, that lay fick of Fevors; where_ fore it is warily pronounced by Hippocrates, Aphor. 19. lib. 2. Two is an rushud ton, a πάμπαν ἀσταλέες οἱ σροδιαγνώσιες ετε το θανάτε οργό ere f vyions, i. e. The predictions of life and death in acute Fevors are not always certain and without doubt.

That we may avoid being mistaken, we are to distinguish; a pulse that's really weak, is empty and small, and for the most part inequal in motion and weakness, neither did

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did it differ much from that degree since

the beginning.

Under the motion of pulsation, Itake a flow and swift pulse, likewise a thick and rare pulse. A flow pulse is known by moving flowmachine ly from the systole, or a contraction of the pulse, to the diastole, or a widening or dilatation of the pulse; and again from the diaftole to the systole. A quick pulse is known by its quick pace from the systole to the diastole, and so reciprocally. A thick pulse to me is, which is perceived by the finger by its frequent beatings, or retreats; a rare pulse contrariwise. Here may be noted, in my apprehension a pulse can scarce be discovered slow and thick at once, when a flow pulse necessarily doth not return frequently or thick, because it's flow; but according to the common maxim, a thick and flow pulse may happen together, because it is called thick, in respect of the interval or rest between the systole and diastole, namely, which returns in a short space of time; but a pulse may move flow from the systole to the diastole, so that there is but a small interval between, before it returns from the diastole to the systole, and thence it's termed thick.

But taking the matter into farther confideration, there is scarce any such pulse, as a thick or frequent one, according as it's commonly described; neither is there a rare pulse, because there is no interval of rest between pulsation; for conceiving, that the pulse is like a reciprocal swelling and falling, like the tide of the fea, there can only be inferred a point of reflection, namely, as foon as it swells up, the next moment it falls again, and as foon as it's fallen, the next minute of time it swells again. Moreover, this rifing or swelling is attended with an impulse from the heart, by means of the constriction of its fibres, whereby like waves, besides the forementioned swelling or turgescency, the blood is propelled through the pores of the body, out of the arteries into the veins. Wherefore that I might not beyond necessity burden my self in my practice with notions, I scarce am used to take notice of any thing else, in the motion of the pulse, besides its swiftness and slowness, neither do I stand much whether it be hard, or hot, or pricking, fince this rather relates to the altered qualities, than the pulse. Thirdly, It is to be observed that those, whose pulse being naturally full, strikes quick, their vital facolty

culty is very weakly; wherefore in women and children the arteries strike quick, but full. Fourthly, In malignant Fevors the arteries do oft move slowly, in such a manner, that one might judge them free from all putrid heat; but this doth not happen, unless death be ready to follow within a

day, two or three.

The natural swiftness of pulsation (not in sick people) must be imputed, partly to the abundance of volatil salt, but such as is not close and compact; for as soon as it arrives to the ventricles of the heart, it's apt to be sush into too volatile particles, and soon afters the salt being so copious, sollows immediately from the other parts of the salt, whence another pulse is ready at hand; partly it's to be imputed to a Bitumen, that is easily inslamed, which quickly kindles and is kindled, whence happens the frequency of the pulse.

By the way, a small question might here be moved, whether the pulse beating quick in Fevors, there passeth more blood through the heart, than when one is in a state of health? First, It must be agreed upon, whether in every dilatation the heart is filled full of blood, and in every constriction it be quite emptied; some desend the affirmative

part, which to me doth not at all feem plain; for those, whose pulse at one time beats full, and at another empty, it must necessarily be argued, that at one time the pails of the heart must be swelled up with a greater quantity of blood, and at another with a lesser; and from the consequents it's evident, that reciprocally in divers pulses, there must be expelled a various proportion of humors. Secondly, Since it may be observed, that a large diastole of the heart is fometimes the next moment followed by a short and weak systole, as appears out of the swelled diastole of the arteries of the wrist, or any other part, there oft following a short and weak systole, whence it's deemed, there is more received into the receptacle of the heart, and less expelled, so that oft a proportion that's admitted by one diastole, is expelled in three or four lyftoles.

To answer to the question, we affert, that the blood is not circulated nothing near so rapidly or quick in malignant Fevors, as it is in the state of health, because the pulsifick faculty of the heart is languishing; neither is the systole of the arteries or heart made with so much force; but in putrid Fevors, the systole and diastole

diastole being violent, the blood is transfufed somewhat swifter, than in a healthful state. Here is to be observed by the way, if a swift pulse be perceived to go slower a day before, and the day after to grow swifter, a malignity is to be suspected.

The third particular worthy of observation is, the equality or inequality of the pulse, in reference both to motion and strength. Wherefore in respect hereof a pulse is said to be equal, or inequal in motion, to wit, swiftness and slowness; and in strength, namely fortitude and weakness. The equality which Authors are wont to apply to a thick and rare pulse, likewise to the tone or musical rithme, we pass by, being rather apt to occasion consusion to the practising Physician. To unequal in motion are accounted the dicrotus or anvile-pulse, caprisant or goat-pulse, intercedent, and some others.

A strong pulsifick faculty, and not depraved, likewise a temperate mixture of the blood being well depurated from heterogeneous particles, are both some causes of an equal pulsation. On the contrary, blood that's unequally mixt with the vital Bitumen, and several sorts of salts, occasions an unequal pulse, both in respect of motion

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and strength. As for other differences, proceeding from the force of passion and other procatarctick causes, we refer to another place.

CHAP. III.

Of what is generally to be observed in Urins.

Since the Urine for a more certain prefage must give place to the pulse, we have thought fit to discourse of this after the other.

Through the abuse of pispot-gazers, and some Physicians, that imprudently pretend to tell wonders, the doctrine of Urines among some is fallen into disgrace; nevertheless since it makes an ample discovery of the diagnosticks and prognosticks of diseases, it ought not to be dismembred from the art of Physick. First, we shall set down, what Urine is, afterwards what particulars are to be observed in it. To me the Urine seems, to be a liquor melted from the volatil and fixt salts, likewise of some excrementitious phlegm, dissolved in the serum or water of the blood, which being throughly filled and

and impregnated with the foresaid contents, through its weight tending downwards, is posted to the kidneys, thence as if it were distilled by descent, it falls down by drops towards the bladder. But that the nature of urine may be made more plain to you, some particulars are to be taken from the constitution of the blood, and proposed here. Those volatil salts I conceive to be the principal efficient of concocting the blood, adding to it a scarlet tincture, sweetness, homogeneity, and fluidity, in which shape the blood arriving to the pores of the parts, that are to be nourisht, doth desert the falts, which return with the superfluous blood to the veins and lymphatick chanels, that afterward disburden themselves into the emulgents. That those salts do not only illustrate the blood with a tincture, but likewise the urine, shall be demonstrated by fight. You shall find, that spirit of (al armoniack scarce differing from spirit of Urine, or firit of Hartshorn, or firit of Soot, a drop or two being dropt into whitish, drabbish and undigested urine, shall immediately concoct it into a golden or vitrinous colour, and an excellent confistency. But if you effuse an acid spirit, that's forced out of a fixed falt, you shall see it turn

turn more drabby, more crude, and of a heavier weight. In the fame manner, if you pour fome drops of those forementioned volatil liquors into a fmall quantity of blood, though crude and phlegmatick, you will digeft it into laudable blood and preferve it warm and florid; but upon dropping some oyl of Vitriol into it, it turns immediately into a curd, the ferum or whey is depressed downwards, and assumes a purple red colour. Spirit of Nitre doth per-vert the redness into a whitish or ash colour, but doth not precipitate the whey, suffering it to swim a top. Upon the further pursuit of the matter, I dropt a drop into a large proportion of blood almost coagulated, whereby almost in a moment the tye of the coagulative particles was dissolved, and indued with a shining lustre, not at all inferiour to the best digested blood. Neither doth it only from this external use deferve to be termed so admirable, but that in a short time, being used inwardly, as I have oft made trial, it hath singularly digested the crude blood of Ashmaticks, Scorbuticks and of worfer habits. A confistency between thick and thin, fignifies a vigour of concoction, chiefly to be ascribed to the volatil falt, living in the vital Bitumen:

men: The causes of the thinness or tenuity of urine in those, that are sick of a Fevor, are the scarcity of volatil and fixt salts. not being sevarated from the torrent floating through the great vessels, also the drying away of the mucilage of the blood, through the heat, or its dissipation through the pores. The thickness of urine is occafioned by the whey or ferum, imbibing too great a quantity of falss and thick mucilage. Touching the matter of the hypoftafis, or settlement of the urine, there hath hitherto but little certainly been stated among Authors, though most are of opinion, it proceeds from the superfluous humour of the third concoction. To me the fediment appears to be a mucilage, partly imbibed by the ferum, or whey within the veffels, partly deterged from the flimy substance of the intern tunick of the ureters and bladder, wherewith they are liquored, to prevent their most exquisite sense be not hurtby the urine, that flows by. This mucilage if you examine the Chamber-pot, shall be found to be a glutinous, thick and flippery flime; moreover, that it's dissolvable by heat, and apt to be thickned by cold like phlegm, may be observed in turbid urines, which as long as they continue warm,

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warm, after they are made, are clear and perspicuous, but a little after growing cold, are turned into turbid and dark, being deprived of the energy of the particles of hot volatil salts, that dissolved the slime; for if you do but hold the urinal a moment to the heat of the fire, or hold it in warm water, they will resume their former shape of clearness. Bubbles that oft swim a top the surface, I judge ought not to be imputed to a statuous, but lixivious constitution of urine; for ashes, soap and other lixivious things, being dissolved in water, render it subject to turn frothy and bubbly with the least stirring.

The colour, consistency, and contents are chief universals, whence a Physician may extract, what preternaturals lye hidden in the body. The colour discovers the active qualities of the salts, the consistency the state of the serum or whey, and the contents the quantity of the foresaid salts and other excrements, that had performed their office; a surther and particular explication of all these, relating to the kinds of Fevors, shall be reserved to the sequel of the book. Lastly, it is to be noted, that in the contents are included the enacurema and hypostasis.

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CHAP. IV.

Concerning the true and Spurious Effence of a Fevor.

N the first Chapter we had hinted at the definition of a Fevor; what concerns its explication, we have partly referred hither. That a Fevor is a derivative from the nature of fire, is abundantly fuggested from its destructive manner of acting, most herce heat, the tongue and roof of the mouth being crusted with a black smoak, likewise from other symproms thence proceeding, as thirst, dryness and roughness of the skin, and inflammation of leveral parts. Here the Reader is to assume, that the vital Bitumen of the heart and the whole body, being kindled into a fire, is the disease or Fevor, or rather that the fiery distemper of the heart and the whole body or part, is the disease; but not the preternatural hear, being that's rather to be counted a symptom, immediately flowing from the disease, in no wife differing from the manner the heat emanates from the fire. Wherefore the definition,

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tion, which is extant among Academick Authors, as Fernelius, Sennertus, and others, ought justly to be rejected. To wit, A Fever is a heat against nature, kindled in the heart, and from thence by means of the spirits and blood, diffused throughout the whole body, and doing hurt to all the natural actions.

The objections against this definition I offer you in these positions. First, I asfert, that the essence of a Fevor doth in no wife confift in an universal heat; nor fecondly, that the heat, which attends a Fevor, doth not altogether arise from sparks glittering in the heart. The argument that confirms the former, is taken from the genus of a Fevor, which is stated a disease; but a discase is said to be the constitution of a part hurt or injured, which kind of faying doth not at all agree with a preternatural heat, that depends on the burning fixt Bitumen of a part; or oft on miasims or steems, blown from the heart (the receptacle of the fire) to all or most parts of the body; but those torrid miasms are not to be taken for the disease, but causes, that in process of time, through their heat, may occasion a disease. Here may be offered a probable objection, that a Fevor

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is the kindling or heat of the influent spirits of each single or more parts, whose hurt is to be imputed immediately to the heat of the spirits, whence a Fevor may justly be judged a heat. Hereunto must be replied, that the name of a part of the body can in no wife be given to the spirits, because they flow continually, neither are they in any manner permanent, but are affigned for the animation and nutrition of the parts, and for that reason their distemper ought not to be taken for a disease; if notwithstanding the subversion of the temperament of a part should flow from a tumult of the influent spirits, and that thence they should be incapable of performing their offices, nevertheless because it's a mediate affection, and to be derived from the burning of the spirits, it's not to be taken for a disease, but a cause. Secondly, If from the general opinion you have a mind to instance, that the putrid heat of all the parts of the body is a Fevor, to wit a continual putrid one, supposing likewise, that the said heat is rifen out of the blood only, being through its means conveyed to the fanguin parts; I answer, it ought not be inferred a discase (fince the blood also, because it's a fluent matter, cannot justly deserve the name

mme of a part) but a cause of a disease, or the vehicle of it. Thirdly, The bones, cartilages, and ligaments, are not fenfible of heat, neither are they subject to receive any putrid heat, because in a Fevor they are feldom or never observed to be taken with a putrefaction or rottenness; how can then a Fevor be termed a preternatural heat of all the parts? Likewise, Fourthly, Why ought the name of Fevor to be actributed to a fevorish heat more than to a shaking, or fevorish coldness in the beginning of a paroxylin of a Fevor, both the former and the later flowing equally as fymptoms from a Fevor? Fifthly, An univerial heat is erroneously ascribed to a Fevor, for in a lipyrious Fevor, a torrid heat doth torment the internal parts, though the externals are cold; moreover it oft happens, that the hands and feet are stiff of cold, and the entrails do in a manner glow with a burning heat. Furthermore, it may be observed, that a Fevor doth sometimes only haunt one fingle part, as the foot or hand. Neither have I forgotten a certain Fevor, whose heat extended no further than the head and face. Hereunto add, that those particular Fevors are not only inferred, to be such, because of the preternatu-

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ral heat, but also by reason of the preceeding cold, shaking and ulcerous lassitude. Sixthly, those that swell so much with the Doct ine of Fermentation, they do not altogether assirm, that it is a preternatural heat that constitutes a Fevor, since the forementioned heat doth take its rise from a heap of influent spirits, striving to expel humours and such small bodies as are annoying; which heat ought therefore rather to be judged natural, than against nature.

In the second position we maintain, that the heat, that attends a Fevor, is not always kindled in the heart, as if the primar hearth were there, which affertion is proved from the kinds of symptomatick Fevors; for the Fevor that surprises a wounded patient, or one that's detained with an inflamation of an entrail, as the Spleen, Liver or Kidney, certainly it's not first kindled in the heart, but in the part affected, whence afterwards it's dispersed throughout the whole ft ucture. Secondly, If the heart were the only brand of fevorish heat, the blood that passeth through its ventricles should retain a mark of being burnt, and undergo some change of tincture; when on the contrary, thousands that have been bleeded in Fevors, their blood that was extracted hath appeared to the eye to be of a pure scarlet and florid, until the fourth, and oft until the

fixth and eighth day.

In the next paragraph I have thought fit, to please my self with the examination of the vulgar opinion, concerning the common feat of continual putrid Fevors, intimating it to be the blood feething in the veffels, and stained with putrefaction: but how grofly this rabble of Physicians is mistaken, may be extracted from what shall be proposed: First, If the sprout of a continual Fevor were ingraffed on the blood, it would not be so refractory to cure, but confisting of fluid, and moveable elements. by means of alteratives, purgers, diaphoreticks, and emptying the vellels by opening a vein, might in a short time be reduced to its former purity and temperament: moreover, through one nights feething of the blood, nature doth oft expel those thin little bodies, that float in it, and the groffer it casts forth into pustules, botches and other, such tumors. Secondly, I cannot grant, that what is stirred by motion, and continual flowing as the blood is, that it is eafily taken with putrefaction; for being full of vital spirits, and living heat, it's held in a continual motion. Thirdly, Until the third.

third, fourth, fixth, eighth or tenth day, computing from the beginning of the distemper, according to the degree of the beight of the Fevor, the blood at the first phlebotomy is extracted pure and florid, as I have observed in hundreds; whence it's evident, that the primar matter of putrefaction, and the feat thereof, is erroneously placed in the blood, though afterwards passing the entrails, it be stained with a malignant quality, loading it felf thence with hot Miasms and Salts. Fourthly, pure phlegm, or veiny gelly, being watered with an immoderate quantity of a pale, green, and blew lymph or whey, fince it makes two thirds of the blood, in the veins of those, that are troubled with the Dropsie, Green-sickness, and other kinds of difeases, why is not that blood, which is so heterogeneous, and so far remote from a temperature (moisture abounding and the plurality of particles breeding putrefaction) always forced into a fevorish heat? And on the contrary, why are hot and dry temperaments, where choler is abounding, constantly so inclinable to putrid Fevors, whereas dryness doth so particularly relift putrefaction: Summarily, the blood according as I have afferted in the premises, fince

fince upon no pretence it's to be accounted among the parts of the body, doth utterly exclude it self being capable to be a feat, place or part affected. If peradventure you doubt, that I have hitherto receeded from the path of the received doctrine, stating the heart or other entrail the feat in Fevors, you have the liberty to take it from the fountain, what is to be concluded concerning the matter. Avicen. fen. 1. lib. 4. tract. 2. cap. 43. dictates thus, Dicamus quod Febris sanguines est Febris putredinis, & Febris calefactionis & ebullitionis, that is, Let us fay, that a Fevor of the blood is a Fevor of putrefaction, and a Fevor of heat, and ebullition. Here is to be noted, that the blood is inferred the subject, matter, and seat of a putrid Fevor. Also Galen. lib. 2. de Crif. cap. 12. Manentibus igitur in venis humoribus, continue ex ipsis Febres generantur, that is, The humors remaining in the veins, continual Fevors are engendred out of them. Likewise, Ætius tetrab. 2. Serm. 2. cap. 74. Putrescentes igitur humores, aut intra vasa arctati, continuas & nunquam intermittentes u/que ad perfect am morbi solutionem Febris efficient, that is, Wherefore humours putrefying, or freightned within the vessels, do cause continual

tinual Fevors, and never intermitting, until the perfect solution of the discase. Here by the way observe, though according to Galen, Fevors are seated in the veins, by their name Arteries are also described, as lib. 1. de Crisib. cap. 7. it's by him more largely expressed. Febres omnes sunt passiones venarum; itaque in Febribus omnibus, quoniam venosi sunt generis passiones, nam arterias in hoc genere comprehendimus, ad urinas pracipue attendere oportet: the English is, All Fevors are passions of the veins; wherefore in all Fevors, because they are passions of the veiny gender, (for we comprehend the arteries also in this gender) we ought chiefly to heed the Urins.

On the other side, they have destined the seat of intermittent Fevors to be without the vessels, as appears here and there by the writings of Galen and Avicen. Notwithstanding I can scarce apprehend the soundation of these seats, wherefore I desire to be satisfied in this doubt, whether continual Fevors are said to bud forth in the veins, because the blood, that leaps out upon phlebotomy, doth appear hot to the touch, and shews deep red being mixt with a blew, milky, or yellowish whey? But this blood is not different from any other, that's extracted

tracted in an intermittent Fevor, or any other disease. And whether the difference of feats is expounded to be fuch, because the blood within the vessels, having an immediate commerce with the heart, is capable to foment a strong heat, whereas entrails, that are more remote from the heart. do only by fits profuse those putrid and fevorish steems, and under that shape do occasion an intermittent heat? Certainly not. Moreover, the entrails being tyed to the vessels, are not less commodiously situated, by means of these small chanels, that tend directly to the heart, to foment a fevorish heat, than if the cause were engendred within the foresaid vessels: or whether, because the vessels are of a just capacity, wherein they may receive such a quantity of fevorish matter, as may suffice to nourish a Fevor without intermission, whereas the entrails are stated to be streight, and not provided with a hollowness to retain matter enough.

On the other hand, the entrails according to what the thing requires, ought to ingurgitate a larger quantity of matter, which might suffice to protract an intermittent Fevor, to some months and years, as doth oft happen. But to touch the knor

of the difficulty, the cause of the continuation, intermission, remission, and intention of Fevors, is not to be imputed so much to the quantity, as the quality of the sevorish matter, as hereaster shall be treated more at large. In the precited definition, the heart is idly stated the part primarily affected; for thence would follow, that the greater part of Fevors should be mortal, because the composure of its temperament being once subverted, is not easily restored. Secondly, Suppose an inflammation of the Liver, or other entrail, attended with a Fevor, which do you think the part primarily asfected, the Heart or Liver?

CHAP. V.

Concerning the fopperies of Fermentation.

A Lmost every Barber and Plaster-spreader have got the knack, to buzze every patient in the ear, the song of sermentation, and know how to fit the tone of it to every disease, but chiefly to a Fevor, illustrating the exposition thereof with this commentary, that the blood sermenteth, and the humors are in a sermentation, like-wise

wife the ferment of the Heart, Spleen, Liver, and it may be of the Fundament too, if they go not orderly to stool, is deprava-ted; moreover, if a Corn of the Toe doth but ake, the distempered ferment is the cause of it. Summarily, fitting the word ferment to every disease, cause and symprom, they conceive the case to be very well handled, and thence tell the Patient, they will expel the disease by correcting the ferment, and so, as if they had done their business mighty well, they send the Patient home swelled with hopes. Concerning this abstruse Philosophy, borrowed from certain theorems of the Wine-press, and chymical notions, Anthonius Guntherus, Theobaldius Hoghelandius, Felicianus Betera, Conringius, Martinus Kirger, and others have professedly treated, whose Treatises if you peruse, you will find the word fermentation to serve in divers significations; the one in a large sense gives the description of it, not at all different from Peripateticalmixtion, excepting, that this performs its task by qualities, the other by action and reaction. But fermentation in a narrower fignification, as it relates to fluids, is stated an effervescency of any liquor, tending to concoction. At present we will examine, whether whether a Fevor be a fermentation, or ef-

fervescency of the blood.

To the resolving of this, we must refume from what hath been faid in the foregoing Chapter, that a Fevor, as it is a disease of the body, doth necessarily inhere in a part, as its subject and foundation; but the blood cannot perform the office of a part; therefore neither a Fevor or fermentation can be properly attributed to it, Secondly, Neither can the blood fermenting be probably conceived to be the continent cause of a Fevor, because its sluid mixture is absorbed in a few days, whereas a Fevor is protracted to some weeks, Suppose a fevorish Patient, to contain four and twenty pints of blood in his veffels, whereof a quarter of a pint is confumed every day by abstinence, and dissipated away through the pores into vapors, and fome days a whole pint, or at least three quarters, are drawn off by phlebotomy; for it's very familiar amongst the French, the first and fecond opening of a vein, to extract a whole pint of blood, and every bleeding afterward (which is commonly every other day) to take away two Porringers, containing three ounces a piece: by this compuration the whole mass should be drawn off

off in two weeks or less, and consequently the fermentation must be quieted and stopt, and the Fevor expelled. But on the contrary, if you should extract blood forty times (as I have oft observed in France they have done) the height of the heat will not be half a degree abated, but rather augmented. Who would then maintain the blood, boiling through fermentation, to be. the cause of a Fevor? However this experiment is observed to be true, if you take off the third part of any liquor that is a fermenting, whether of Wine, Beer, or any other mixture, it will immediately be taken off from working; but ofttimes the blood is tapt off to the half, and sometimes to the last fourth part, without the least quieting of the fermentation, if I may call it fo. Possibly you reply, that according as the vessels are emptied by bleeding, fweating, and other torments, they swell up again by the food and drink, that's daily taken. On the contrary, there is a thin Diet ordered to such, as are in a Fevor, neither do most in the whole course of a Fevor, allow their stomach so much, as whereout the fanguifick faculty may engender a pound of blood: add hereunto, that their appetite for fourteen or twenty

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days is quite dejected. But you reply, that they take as much food, as answers, what is confumed; to this I return, that the blood, which is daily ingendred, and newly admitted into the veffels, either it's pure, or stained; if the former, then it ought to dilute, and temperate the fermenting mass, which it doth in no manner do; if the later, it is not to be doubted, but that it hath contracted its stain, from the concocking and depurating entrails; whence follows, that the primar and principal cause is not to be attributed to the blood, but the entrails. Thirdly, It's confirmed by experience, that fermentation doth happen to any mixt liquor, and foft compositions, as paste or dow, electuaries, and others, which is plerved to be a mild working of the fulphurous and volatil-falin particles, exerting a temperate heat, that attenuates, expands, and diffolves the whole effence, and separates the fuliginous-salin parts from the homogeneous ones, by fubliming them into a tharp falin fcum; the tartarous and fixt falin particles it precipitates into a mucid and flimy mud. This being observed to be the fignification of fermentation, according to the true intent and meaning of those, that imposed it on things, that were

to be fermented, it seemed indeed a very simple and idle affertion, that whilft the blood doth feeth, boyl, hiss, and burn the hand of him that toucheth it, and occasion a black and sharp steem, being an effect of fire, on the mouth and tongue, that all this should depend on a fermentation, and mild heat of the blood. Doth not fermentation always tend to concoction, but a Fevor oft to corruption and death; and that one and the same word shall signific two contraries, is it not an absurdity? To express alteration, mixtion, generation, corruption, calcfaction, and what not, by the word fermentation, (a word wondrous pregnant) is to fet limits to all physical re-searches and inquiries. Neither do they detract less from the art of Physick, who affert a vitiated ferment the cause of a Dropsie, Phthisick, Pleurisie, and of the whole train of diseafes; on the correcting whereof (to wit the ferment) every old Wife and Barber-furgeon shall say the stress of the cure doth lie: and is it not then lawful, for this Tribe to vye with fermentitious Physicians, yes and exceed them? How formally and cunningly at this rate is the disease, cause and cure, proposed by every Glisterpipe: What is it at last come to? What necessity is there. there, to apply ones study to Anatomy, Botanicks, Physiology, Pathology, and a thousand other things? O wonderful Headpieces! You will notwithstanding by the way admire, if this notion of fermentation be only assumed as a phenomenon or supposition (for the thing it self is not yet agreed on) by those that are something higher advanced in Learning, to shew themselves more dextrous in illustrating the causes, extracting of indications, and in the method of curing, yet it is not to be doubted, but that they ship off a greater troop of sick in Charons Boat, and deserve a greater fraight than the putrid Physicians.

But to the business, let us now be at leasure, to examine the manner and method, that Fermenters undertake the cure of continual and intermittent putrid Fevors, what indications they answer unto, and wherein they receed from putrid Physicians. The Indicantia, and Indicata, ought to be ranged in this order. The blood too much inraged, or too little moved by fermentation, and a vitiated ferment, are the chief Indicantia; those things that promote, or quicken the too flack fermentation, and temperate it, when too violent, and reduce the ferment, when receeded from its tem-

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perament, are the Remedies Indicated. The vital faculty languishing, and deprived of irs spirits, doth indicate a cordial and restorative medicine. The animal faculty being broken, through want of many nights rest, must be relieved with Opiats. The Belly if forgetful of its office, must be rowfed up with a stimulating suppository, or laxative glyster: neither are the urgent symptoms of a two swelling fermentation, to be neglected. A Phrensie that proceeds from sulphurous steems, fuming up from the fermenting mass, must be allayed by means that revell or draw back from the Brain. Astringent medicines bridle a loofness, and enormous vomiting. Thus far in general, concerning indications, taken from their theorems; nevertheless these being waved, the Fermenters do follow the method of cure of the putrid Physicians; in posting away their Patients, to the place of their fore-fathers, as shall be recited immediately. That it may be physically illustrated, we ought to premise their practice, being fitted to a particular fick perfon; whose age, sexe, temperament, former custom of living, season of the year, tenor of their Pulle, state of Urine, urgent symproms, occasional and procatarctick causes, and

and manner of the first assault of the Fevor, what fymptoms attended, what fymproms arrived afterwards, manner of breathing; the habit of the Hypochonders, Stomach and Belly; the manner of the look of the fick man, his manner of speech, what habit of body, what usual evacuations are suppressed; whether the Fevor be essential or fymptomatick; whether first come, or a relaple; what disease he was troubled with last, what remedies were applied before the Physicians coming, and many other particulars, that are to be distinctly propofed, all which I fay ought to be represented to the scrious meditation of any Physician, that is to undertake the cure of a Fevor. But they receed so far from these necessary animadversions, that being sent for to a Patient, having only felt his Pulse, they look upon the Urine, and make fome little inquiry concerning the state of his Belly, whether loofe or costive, neglecting all other necessary informations, and apply themselves immediately to prescribing; and their first business is, to put the Belly in order, whichithey endeavour by this following form of a glyster; but I am to advertize you before, concerning the custom, that young Physicians, that are newly come

come from the University, diligently repair to the Apothecaries shops, for to inform themselves with the forms and receits of the Elder Physicians, and being acquainted with them, it happens thence, that every Phylician is furnished with the fame examples or forms of remedies, neither doth the one go an inch from the road of theo ther. Wherefore I shall collect you the most received forms, throughout the whole course, for to remove a sevor, compiled by our modern ones; afterwards how fuccessfully our age makes use of them, I shall particularly observe. The presciption of a glyster according as it's commonly found in the Shops, is this.

R. Decoet. commun. pro clyst: vel juxtà alios.
R. Decoet. Emoll. com. lib. j.
Elect. lenit. 3 j.
Ol. com. vel viol.
Mel. Mercur. vel Ros. ana 3 j. vel ij.
Sal. com. q. s.
m. f. Enem.

Some there are, that instead of common Salt put in Salt-peter, or Sal-prunella, from half a dram to a dram: which for its D 4 deter-

detergent and cooling quality, is far beyond the other; and indeed Crystal mineral being added to any fort of glysters, is far more beneficial, because it agreeth so very well with the temperament of the Guts; on the contrary, Sea-falt being of a drying, inflaming, and irritating faculty, is very offensive to the Guts: For this reafon the Antients made use of it as well inwardly, in Pills, thick Syrups, Glysters; as outwardly in Oyntments. Some among the Fermenters do extreamly oppose the giving of purges, or laxative glysters in Tevors, because they provoke the corrupted excrementitious humours to ferment, whose steems piercing into the vessels, do disturb, and augment the fermentation of the Fevor. On the other side the putrid Phyficians make this reply to them, that glyfle.s doing their work quick, and without the Vessels, cannot transmit the least breath of heat, nor blow up any steems, the valve of the Colon putting a stop to their passage. Lastly, That it is a ready means to cleanse the body, without weakning or fermentation of the humours corrupted without the vefsels, which otherwise in process of time, might largely contribute to the malignant matter within the Veins; for it is the judgejudgement of many, that some Fevors, which at the beginning were only hurtful through their putrefaction, are changed into malignant and mortal, by reason the putrid drabby fettlement, which lay hidden in the folds and coats of the guts, is regurgitated into the vessels, and that therefore purging glysters once or twice repeated, ought to be necessarily put into use: afterward they cause a glyster of milk and fugar, to be administred once every day, to foften, deterge, revell, cool, and evacuate. There are those (but are scarce in their wits) that maintain, the foresaid glyster ought to be made out of crude milk, and to be applied cold, conceiving that by boyling, the volatil energetick particles might otherwise be evaporated into the air. But they are unmindful, how hurtful things are to the membranous parts, and the guts, that are actually cold, and that they repel those putrid vapours, that steem out of the hidden places of the mesentery, and guts, to the heart, and the brain. Others are of opinion, one third or half the proportion of water ought to be poured to the boyling milk; afterward putting sugar to it, they administer it warm. Others only fimply order milk boyled, and fweetned

ned with sugar, from half a pint to a pint. The lower region of the body being thus cleansed, two, four, or six hours after, bleeding is to be celebrated in the right arm, which Fermenters do sharply oppose, because it doth exhaust the spirits and matter of life, which failing, the fermentation and con-coction are thereby much disturbed, and the heterogeneous particles getting the upper hand, is a prefage of an unlucky crifis, However the greater number of this Sea do not think it safe, to vary from putrid Physicians in this matter, bécause almost all Fevors are too exorbitant in fermentatien, and the spirits oppressed by heterogeneous particles, the heat being too much heightned, the skin being constipated, and lockt up through the foot of the pores, all which evils bleeding doth very much abate. These reasons swaying with the prudent, they command a vein should be open'd twice, thrice, or four times, according to the degree of plethory; others tap off the blood every third day, some every other day, until together with the foul they have drawn out the whole.

In the next place they are to bend their force against the matter, fermenting too fiercely, by giving Cordials and Diapho

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reticks. In this particular the Fermenters and the putrid Physicians are differing, the later relieving the impared vital faculty only with cold cordials, as shall be made known to you in another place. The forms of sudorifick Cordials, as they are hung on the Apothecaries files, and according as they have been prescribed by the more famous fort of Physicians, shall now be put down.

R. Aq. ulmar. citr. tot. lujul. scabios.
card. Ben. rut. dracunt. (three or
four of these; ana 3j.
Aq. Theriac. Epidem. ana 3 st. of 3j.
ot 3j. st.
Some add Diascord. fr. vel Theriac.
Lond. 3j.
Spec. è chel. cancr. comp. Dij.
Syr. garyophyl. vel è suc. citr. 3j.
m. f. Pot. vel. Jul.
Capiat cochl. 2. vel 3. altern. hor. vel
cochl. 4. quarta quavis hora.

This prescription though it hath been in use almost an age, some sucking Fermenters have thought sit to make exception against the Treacle-water, because vinegar makes a great part of the composition, which

which they fay, doth enrage the fermentation; though according to the judgement of others, Vinegar doth qualifie the fermentation, and coagulate the fermentative particles; moreover, it's adstringent, shuts the pores of the body, and stops all evaenations, for which reasons the use of Vinegar is very much suspected by them, therefore instead of the Aqua Theriacalu, they allow to the prescription double the measure of Aqua Epidemica, the description whereof is made publick in a small Treatise of the Colledge of London, Printed a good while fince; but because the Copies are most dispersed, I shall think it no trouble to fet down its description here.

R. Rad. torment. angel. pæon. m. zedoar. glycyr. helen. ana 3/8. fol. salv. chelidon. maj. rut. summit. rorismar. Absynth. ror. sol. arthemis. pimpinel. Dracunc. Scabios. Agrimon. Melis. Card. Beton. centaur. min. fol. & flor. calend. ana m. j. incidenda incidantur, contundenda contundantur, & digerantur per triduum in Vin. alb. opt. lib. viij. ac destil. in Alemb. vitr. Nonnulli prascriptus adjiciunt cerasa nigra, flor. paralys. papav. Rh. & quid non?

In Childrens Fevers, Aqua scordii composita is preserred before Aqua Theriacalis, or Aqua Epidemica, because it is less hot, and consequently less hurtful. Let us halt a while here, to examine, whether the Vinegar being an ingredient in Treaclewater, doth suppress the fermentation of a Fevor in the vessels. To those that have but had the least tast of the Chymical art. it doth appear very plain, that fermentation doth arise from a strife there is between the acid, and alcalized, or lixivious falin particles, which in properties are fo contrary to each other, that through the deficiency or failing of either of them, the action of fermentation is immediately cut off; the same likewise happens, when either doth exceed the other in its just proportion of strength, through which they fall on each other. It is held for a certain truth, that in a burning Fevor the blood is full of lixivious and alcalized falts, wherefore, by giving of a medicine, that is vitriolate, diluted with Vinegar, it doth necessarily happen, through natures ordinary way of working, that the fermentation (if any fuch thing may be granted) is intended in its fury, through the vigor whereof the annoying corpulcles are separated from from the mass, and expelled thence, whereby at last it is perfectly depurated, and defecated. Moreover that we may lay the case whole open; if the concoction in the stomach be performed by fermentation (as it's every where declared by it's Affertors) take notice, that fauces, whereinto Vinegar is poured, (especially if impregnated with the infusion of Capers, Broom-buds, or other raw four things) do set a very sharp edge to it; for as foon as they are ingested, we are troubled with a glowing heat about the Stomach, and Hypochonders, also about the face, and top of the head. Secondly, Treacle-water being tempered with Vincgar, doth become thence more penetrating, and more vigorous in its vertue, whereby infinuating readily into the most inward and central parts of the body, it performs the work of an antifebril medicine. Thirdly, Since this Treacle mixture is unadvifedly composed of many things, that are very hot and tharp, as leveral ipices, Masterwort, and some impure Sulphurs, and others, Vinegar doth very much blunt the edge of them, and freeth those Sulphurs, not only of their stink, but impure recrements. Whereby it's apparent, how great an error they are in, that under that pretence

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tence of quicting the fermentation, rail against Treacle-water, and Aqua Apotheriacalis, because of the acid ingredients. But setting aside these discourses, though I do not contemn Treacle-water for the reafons newly quoted, yet for other causes I look upon it as a medicine of no effect and yertue; for the liquor that's distilled off, from the matter digested in the body of the Still, doth appear to be nothing, but a phlegm impregnated with a small proportion of the vertues of the ingredients, and those obtused too by acids. Secondly, Acids indued with the salin parts of the ingredients it hath attracted, being thence rendred more ponderous, do not pass the helm or alembick, but remain in the bottom: so that the Fermenters need not to be stomacht fo much at the hurt of these acids, since they are left behind at the bottom. Wherefore those with whom this reason doth take place, make use of Vinegar impregnated only with the vertues of Alexipharms against pestilent and malignant Fevors, setting aside the destilling of it, they hold it to be strongest by digestion and filtration, by means whereof the faculties of both are preserved intire. Likewise those that labour, to extract the volatil salts of Diaphoreticks,

phoreticks, and Alexipharmacals, by destillation, having ordered their infusion in tpirit of wine, they destil off the liquor, by all means avoiding the pouring any acids to it; hereof there is an example in the Aqua Theriacalis in the Augustan Dispenfatory, and in that Treacle-water, which is ascribed to Paracelsus, mentioned in the mixtura è tribus in peracutis. According to this way of reasoning, it is inferred, that the Aqua Scordii composita described in the London Difpenfatory, is much weakned in its vertue, because the acid juices of Sorrel and Cin trons, not mounting up to the Helm or Alembick, detain the vertues of the other ingredients within them; though notwithstanding many railing at Treaclewater, because of the Vinegar, make a great noise of the praises of Aqua Scordii, as being composed of Acids, that are not restringent. These I would have to be answered, out of solution of the Problem, to wit, whether Vinegar, as it is added to Treacle-Water, be restringent; certainly not; for in time its restrictive faculty doth languish away, by being united with the alcalized and volatil falts of the rest of the ingredients, until at length the nature of Vinegar being quite buried, the medicine groweth

groweth eephractick or opening, in the same manner, as Oyl of Vitriol exceeding all others in restriction, and being obtused by the Alcali of Salt of Tartar, is now arrived to be a very great opener. Secondly, That aftringents are very active (but it is per accidens) in removing the obstructions of bodies, especially of such, as are inclined to Fevors, is made evident by this experiment, being confirmed by all mens judgements; Salt of Steel bred out of the stem of Oyl of Vitriol, is not at all different from vitriol it felf, fince it is manifestly known, that the foresaid salt is oyl of vitriol, coagulated through the hungry matter of Iron, and reduced to its old form and body of Vitriol, but advanced to a higher degree of purity; for Iron growing out of Vitriol, condensed by being separated from its mercurial part, now its latemercurial part, namely Oyl of Vitriol, being returned to it again, is as it were through a new birth reduced to its primitive body of Vitriol; but its impure recrements are rejected. So that hence, though the Salt of Steel is made visibly to be a most special medicine for astriction, nevertheless it is prefer'd for a most potent medicine to remove the obstructions of the Spleen,

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Spleen, Liver and Womb. This effect it very fuccefsfully performs, by cauting a combate and effervescency in the vessels, between the acid and fiery falin parts of the humors, whereby the blood coagulated in the veins is at length dissolved, and that which is thick, is attenuated. Steel prepared with Vinegar (whereby its vitriolate astringent vertue is increased) is esteemed famous against obstructions by all Phyficians. Hence you may learn, that all chalybeate and purely vitriolate medicines are per se restringent and stopping, but per accidens they dillolve and open; wherefore they ought to be used with a great deal of caution by Dogmatick-spagirical Physicians, according as it is illustrated in this following relation. A fermentitious Physician of no mean rank, having given Crocus Martis three times to one, that was troubled with a bilious diarrhaa, or loofeness, and though he had before prescribed him two infusions of Rhubarb, and Mirobalans, yet had occasioned such gripes in the Guts, pain, and inflammation of the bowels, that increasing his stools as much more, sent the Patient to Limbo. On what this unfortunate practice is grounded, you may judge from what hath been premifed. Now

Now it's time, to look back to the place, whence I digressed. The opposition of the Fevor is not only committed to an antifebril Cordial medicine, but another that's purely Cordial, is also joyned with it for assistance, thereby to relieve the Heart and Arteries, with a supplement of spirits; in the form as followeth.

R. Aq. melif. tot. citr. lujul. aur. ceraft nigr. ana 3j. Aq. mirabil. 3 vj. tinet. croc. or accord-

ing to others. Spir. menth. 3 ij. succ. kerm. 3 j. or 3 j. st.

Syr. garyophyl. others write Syr. è suc. citr. 3j.

m. f. Pot. Capiat. cochl. 1. Or 2. altern. hor.

Hereunto some add Confect. Alcherm. ot de Hyacinth. 3j. also, spec. è chel. cancr.

comp. Jij. or 3 j.

But such as do not so well approve of these kind of prescriptions, because those distilled waters are so faint, and void of spirits, offer their Patients burnt Claret spiced, and mixt with cordial waters, and syrups. Also raw Rhenish Wine, as appears by this following prescript.

R. A7.

R. Aq. Hord. depur. lib. j.
Aq. bor. buglof. viol. ana z ij.
Vin. Rhenan. elect. z iij.
Syr. è suc. citr. Garyophyl. ana z j. se.
m. f. Julap.

E quo sumat Patiens Ziij. tertia quaque hora.

This is a Julep of his composing, as may easily be conjectured by the Wine it contains; for he doth not willingly leave it out of any thing, either for himself or for another; but I imagine he ought to be better versed in that ingredient, since he bath for so many years made it his mothers milk, than not to know, what fort of Rhenish Wine ought to be put in, whether Bachrach, Rinckhower, Hochmer, befides a hundred forts of Rhenish Wines differing infinitely in strength and quality from each other, but that's entrusted to his Apothecaries palate; but as for the success hercof let that be buried with those that have made use of it.

Cooling Cordials (according as they are called in the common phrase) as the four Cordial-waters, Aqua frigida Saxonia,

which

which by the former age none was thought like it, and others, are now almost quite grown out of use among the Fermenters.

The strength of a Fevor being scarce abated with these helps, all hope is reposed on alexipharmacal species, for since the violence of this heat hath granted no kind of truce, this six or eight days, from the stubborness and continuance of its force, it's now among the vulgar to be termed a malignant Fevor. Of these foresaid Alexipharmacal species, or powders, there are examples extant of two forms, the one making mention of pretious stones, pearl, and Bezoar, the other being grounded on the base of Alexicacal roots, among whose number the root of Virginian Serpentary is in this age extoll'd above all others.

R. Spec, è chel. cancr. comp. corn. cerv. n. pr. or instead thereof, rad. serpent. virg and 38.

Lap. contrajero. 3ij.

m. f. Pulv.

Hereunto some are pleased to add, Troclisc. viper. Dij. or salis viper. Dj. Cochinil. 38.

Capiat Dj. quarta vel sexta quavis hora in Cochl. I. Cordial Julap.

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Since Lapis Contrajerva is so famous among us, I shall here set down its description.

R. Rad. contrajerv. pulv. 3). serpent.

virgin. 311. 18.

Extract. rad. Angel. tormentil. and 3ij. Corn. Cerv. ust. C. C. nov. pr. Coral. rubr. chel. cancror. lavig. and 3j. st. Antimon. Diaphor. 3iij.

Croc. angl. Lap. Bez. ana 9j.

Cum gelat. spol. serpent. formentur globuli, sub umbra exsiccandi.

Some add, Trochisc. è viperis 3j.

Cochinil. 38. vel 3j.

Ambr. grvs. gr. 8. or 10.

Dof. 9j. ad 9ij. 6 3i.

This form I have also oft met with.

R. Spec. confect. liberant. vel Cardiac. magist. vel Diamargar. frig. (one or two of these, or all of them) and H. magist. perlar. coral. and H. Lap. Bez. or. gr. 8.

m. f. Pulv.

Sometimes in this manner.

R. Lap. 5. pretiof. anagr. 15.

Margar. prap. 9j.

Lap. Bez. 3/8. m. f. Pulv.

Dof. gr. 15. vel 3j.

Sumeada

Sunenda ter per diem horis medicis in cochl. 1. Cordial. Julap.

Others who abound in their own sense, do wonderfully magnifie a certain Cordial Extract, Extractum Cardiacum, but not that of Quercetan; among these there is one formerly, who was a Captain of a Troop of Horse, but of late years hath practifed as a Doctor of Physick, he declares for a certain, that he can readily abate the impression of the most furious malignant Fevors, and that by the fole means of this same extract, ascribing the fecret of it to himself, whereas it's well known, it was composed by one Doctor Read, a famous Physician in his time. It is oft made use of by modern practicers, though with no better success than attends ordinary Cordials.

The description of the Extractum Car-

diacum is this.

R. Mithridat. Diascord.

Philon. rom. Theriac. Andr.

Croc. Angl. Lign. Aloes, rad. Hyoscyam, ana 3vi.

Opii Theb. 3ii). extrahantur omnia feorsim cum spir, vin. q. s. & exhal. ut f. extr. Dos. à 318. ad 31. & 318.

Patients having passed many nights without sleep, and being grown light-headed, they judge it will be very beneficial, if they assist them with this subjoyned hypnotick, to be taken at the hour of rest.

R. Theriac. Londin. (being less hurtful, because of its moderate heat) vel Conferv. lujul. 3 %.

Margar. prap 9 8

Laudan. opiat. gr. 2, 3, vel 4.

m. f. Bol.

Capiat hora somni.

All this advice being followed to no purpose, and the fate of the fick patient drawing near, Physicians sly to the so prodigiously cried up spirit of hartshorn, as it were to their facred anchor, giving hereof eight or twelve drops, twice or thrice a day, in a spoonful of cordial Julep; neither doth much time pais, before Phoenigms and Epispastick Emplasters, in testimony of the last unction, are applied to the infide of the arm, a little above the wrifts, likewise on the inside of the legs, a little above the ancle, and oft near the arm-pits, and now and then to the nape of the neck. The task they are defigned to perform, is to drive

times

drive out the malignant and venemous matter, under the shape of an ichor, or sharp water, into large bladders, from the deepest parts, to the outward skin, which being perforated, Melilot plaisters are to be applied, to dry up the moisture. At last they are to bid the Patient his last farewel, by tying live Pigeons, cut through the middle, to the foles of his feet, or pickled Herrings, or sharp Leven, Spurge, Crowfoot root, wild Pellitory, Mustard-seed, black Soap, or brown Salt, one of them, or all, beat together, and so the fick man is left to the disposition of the Stars, in which case some, though very few, after they have lain some hours speechless and fenfeless, under the shadow of death, they have been raifed and awakened by degrees, nature exerting its drowsie strength; others dye with Convulsions, or in a fainting fit.

Modern Practicers do not much matter, what drink their fevorish Patients are to quench their drought with, some bold Physicians allowing them strong beer, others small beer with a tost init, or the cold and rawness being taken away by warming of it. Some give their Patients thin water grewel to drink, others the decoction of the shavings of Hartshorn, and some-

times burnt, or both together. Some allow the decoction of French barly. Juleps tempered with acids, fal prunella, and cooling fyrrups, are among most grown out of use because of the acids, which they suspect for the causes newly alledged.

If you require of me what animadverfions I make on the premised practice, I should not frustrate you expectation (though elsewhere, excusing the slenderness of my judgement, I shall use my indeavors in it) were it not, that the Belgick-German practice (for there is scarce any difference between the German and Dutch Practitioners, excepting that the later are more liberal in bleeding, and the former do much use certain antifebril powders) and the French method could so conveniently be subjoyned here.

In the Low-Countries and in Germany a Physician having discovered a continual levor to surprize the Patient, immediately premising a purging Glyster, made out of a pint of Emollient Decoction, one ounce or an ounce and half of Electuary lenitive or Catholicon, with common oyl, or oyl of Violets, Hony, and a little salt, adviseth bleeding out of the right arm, to six, eight, or ten ounces, thereby to take off from the plet ho-

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ry, to lighten nature of its burden, open the pores that are shut, and remove the obstructions of the bowles. Next day to cleanse the foulness of blood, and to remove the heap of foul humours, that are accumulated in the lower region of the body, he composeth this following, in a most fingle form of a potion.

R. fol. sen. or. m. 3ij. 3iij. vel 38. sem. fanic. d. 3/8. vel 3j. f. infus. per noct. in aq. cichor. q. s. In Colat. Bij. vel iv. diffolv. man. calab. 3j. vel. 3j. 8. vel. 3ij. fometimes Syr. rof. fol. 3j. m. f. Pot. Capiat cras mane cum custodia.

Others make use of the Cold Infusion; as they call it, being made out of the faid leaves of Sena, in the same weight, with or without a corrective, infused all night in fountain water, without fire, dropping into it falt or oyl of Tartar, ten or fifteen drops, afterwards sweetning the expression with Manna, syrup of Roses laxative, or Sugar.

Rhubarb is set aside, because of the heat, that abounds in it, and its binding faculty, after

after it hath done working. Although af. ter this manner they give purges in the be-ginning of continual Fevors, yet they do not contemn Hippocrates his precept; wiwara papuanever z nwier in pin dera, &c. that is, humors that are concocted, ought to be purged and stirred, not crude ones, unless they swell and run up and down, because they expel only such excrementatious humors, that lye lurking without the veffels in hidden places of the mesentery, and guts, which certainly would never be concocted; for, feeding much on roots, cabbage, falletting, milky diets, butter-milk, and other things, that contain a great deal of excrementitious juice, their bodies do abound with those kind of humours. Wherefore the foresaid law of our great Physician doth only relate to humors, floating within the vessels.

Afterwards they order a Laxative glyster to be given every other day, for to suppress those violent slames of the Fevor, and frame Juleps out of cooling waters and syrups, and sometimes Emulsions out of Almonds and cooling seeds.

The impaired vital faculty they relieve with a *spirituous* potion, after this form, according as their prescriptions here and

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there in the Dutch Apothecaries shops do plainly inform us.

R. Aq. 4. cordial, ana 3j.
Aq. cinam. 3/8. vel 3vj.
Confect. Alkerm. 3j.
Spec. Diamarg. frig. 3ij.
Syr. è suc. cutr. vel granator. 3j.
m. f. Pot.

Ofttimes to these cordial waters the same quantity of Aqua Melissa is added. Sometimes instead of Aqua Cinamomi they put in Aqua vita Mathioli; also Confectio de Hyacintho instead of Confectio Alkermes. Nature moving towards the extremity, they sty usually to this cordial powder.

R. Spec. Diamarg. frig. 9/8.

Magist. Perlar.

Coral. ana gr. v.

Lap. Bez. or. gr. iij. vel ivi

m. f. Pulv.

sumendus bis per diem mane

fero in Julap. Cord. modico.

The animal faculty being much broken through want of rest, they cause sleep by this following potion.

R. Aq. Bor. nymph. pap. Rh. ana zj.
Aq. Cinam. zij. Confect.de Hyacinth.zj.
Syr. Papav. Rh. zj. vel zj. st.
m. f. Pot.
Capiat hora somni.

They very seldom make use of Opiats in this case, being much distatisfied in their unsubdued narcotick force, especially where the strength of the Patient is scarce pro-

portioned to diffipate it.

The fick body being surprised with a phrensie, they draw blood out of the foot, or if his principal faculties are two languishing, they revel the blood by cupping-glasses, from the brain to the extream parts. The Fevor declining, and discovering a white sediment in the Urin, they cause an evacuation by purge once or twice.

evacuation by purge once or twice.

The French subdue putrid and malignant Fevors, by bleeding the first time largely, and afterwards repeat it every other day, to five or six ounces; the days that are between, they prescribe a laxative glyster, and sometimes a potion of the insusion of Sena, Manna, and Cassia (which later is in great veneration among them, La bonne Casse as they call it) syrup of Roses laxative.

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tive, and Crystal mineral. For the critical days they take no notice of them, often saying, that to expect the Criss, is to expect death, and so by drawing of blood, and surging with glysters, they go on very diligently. For their ordinary drink they allow ptisan, which is to be sold ready made in the shops all France over.

The Germans do not differ from the Dutch, except that having emptied the body, by purging and bleeding, they propose powders, to expel the febril miatins, and to cool, composed out of Terra sigil. Bol. Armen. corn. cerv. ust. ras. ebor. rad. tormentil. bistort. and the like, but before all these they prefer Pulvis Rubeus Pannonicus, set down in the Augustan Pharmacopea.

CHAP.

CHAP. V.

Shewing that the modern practice of subduing continual putrid Fevors, is barbarous, and killing.

Hat the practice of Fermentators is to be abominated, and that it is killing, who can deny? Since among a great company of fevorish Patients, the greater part whereof are probably strong, young, well flesht-men, not being swelled or retcht in their Hypochonders or Belly, yet scarce the third man recovers his former state of health. What must be inferred from hence, when in the rage of a Fevor, though the Phylician be fent for at the first minute of the Disease, and that the strength of nature is more than proportioned to subdue the Fevor, nevertheless the poor wretch dieth? yes, let all things be administred according to the most received rules of Physick, let the highest cordial be given, also Extractum Cardiacum, Pearl, Bezoar and the spirits of Hartsborn it self, yet very oft to no purpose, and the Fevors will triumph until the hour of death? But if

in favour of the Fermentators it be instanced, that before our Asimlapius came to the affiftance of the fick man, the flame was kindled to the top, and that the Fever had taken deep tooting, that the malignity of the disease had trodden down the principal or commanding faculties, the cause of the fatal day is not to be imputed to the Physitian, hor to his remedies, but to the malignant distemper, too much inraged by too long a stay. Hereunto I reply, notwithstanding that the Physician was at hand, at the very glimple of the first spark of the Fevor (which possibly then was of no such ill aspect) as I hinted just now, nevertheless the case will run to ruine. But on the other hand, if any one that liveth in the Country, be he a Country man, or come from the City, be taken with a Fevor, and. the care be committed to an old wife, immediately shegives him a certain posset, that is throughy favoured with Carduus or Pepper, and puts him to bed, covering him well with clothes until he fall into a dew sweat; this being once or twice repeated, she commits the rest to nature, wherein she proves fo lucky, that out of ten nine, if not all, for the most part get the better of their distemper. Moreover the Divine old man scarce ever gave greater relief to any in a Fe-

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Fevor, than by doing nothing, and committing the whole business to nature, and therefore he oft urgeth that nature be not interrupted in concoction. Aphor. 22. 4b. 1. un oud arten, &c. that is, do not move crude humours, and Aphor. 24. of the same book. It were better, if they cannot discover the adequate remedy, to follow Avicens document, sen. 4. lib. 1. cap. 1. Cam ignoraverus agritudinem, relinque eam ustura, quia aut curabit eam, aut manifestabit eam, that is, when you do not know the disease, leave it to nature, because either she will cure it, or discover it. Also they would contribute far greater advantage to the ease of the fick, by expecting with Hippocrates the erifis, than by a thousand tricks to circumvent nature; for if they can do no good, let them do no harm a least. But now it is, I am at leisure, particularly to fet down the order of this lazy practice. Those that reject glysters in the beginning of a Fevor, because they should not blunt the edge of the ferment too much, do not at all perform their duty in the right administring of things, fince the rubbith of the body that is lodged about the turnings and windings of the guts, and the hidden places of the melentery, not being

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ng expelled, doth either by profusing steems nto the vessels, very remarkably increase he heat, or by putrid particles creeping ino the blood, is apt to kindle the Fevor. This rubbish because it is incapable of beng concocted, and is lodged without the effels, does eafily yield to a gentle laxative otion, or purging glyfter, without any ear of increasing the heat. But since peole here are such immoderate devourers of lesh, that the belly being the fink of the whole body, must needs abound with forid excrements, is not a laxative purge, or Cathartick glyster very necessary? But it hust be given in the first preceding days, or afterwards the greatest part of that filth nd dirt is carried away into the vessels, by he rapid torrent of the blood, and thereore all purging is to be set aside; for ereby nature would else be drawn from s work, with a great disturbance, and at without the least benefit. Neither is hat I have proposed just now contrary to ent ippocrates, as you may observe, Aphor, 10: aty 6.4. In atutis passionibus eadem die si fiace i potest, medicandum, nam in his cun! dit ari malum eft, that is, in all acute paffiınd as you must give physick the same day, if beoffible; for to tarry is hurtful: also ing Aphor:

Aphor. 29. lib. 2. and in Aphor. 30. lib. 1. he gives the reason for it. Circa initia om. nia debiliora, & in statu omnia fortiora, qua purgationem fieri impediunt, that is, about the beginning all things are at weakest, and about the state at the strongest, which hinder, that a purge should be given Secondly, all bodies that are inclinable to Fevors, or are fevorish, are for the most part in the beginning oppressed with a Plethora ad vires, or a fulness of the welsels, more than their strength can bear, whereby the spirits are pincht, and through too great a condensation grow vehementy hot, the circulation grows flug and dull, and is carried in a disorderly motion, and the pores are stopt; how urgent is the cat then, that some blood be taken away in mediately? thence the spirits will be able to bestir themselves, the motion of the blood from irregular will become regular the passages of the skin will be more free, and the heat will be moderant But fince it is not feldom, that a Fevor being fubdued by the first bleeding, though no to an absolute extinction of the fiery hear the sparks raising the flame again, the blood doth swell up a new, and run vio lently up and down, reason doth like

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wise advise, that the veins are the deplenisht the second time, that we may arrive to the same effects. But those that indeavour to venture the opening of a vein e third time, do unpunisht make a playgaine of a mans blood; for there is not so great a benefit reaped this third bleeding, as there was by the two former, as I have found by a thousand trials, but the spirits and forces of the fick are barbaroufly destroyed, by taking away their due food and nourishment, and quite ruining their base and foundation; for they inhere in the blood, as their foundation, and subject, and from it they draw life. Moreover, neither is the blood then so turgid and impetuous, because besides the former substraction of blood, the parts of the whole mass are attenuated, melted and dispersed through a great many little caverns and holes, that before were filled. Likewise there is now a close engagement between the vital spirits and the sebril corpuscles (what there are shall be told you hereafter) so that if either you disturb the spirits, Ja 200 or exhaust and lessen them by bleeding filement the fevorish miasms must necessarily get the victory, and produce death for their trophy. Thousands are killed by the flaug ter

flaughter of the lancet. That you may understand the case more plainly, I will illustrate it to you by an example of one, that lieth fick of a malignant Fevor, whom should you bleed but a second time, or fometimes but once, you would certainly bring his life into danger, for neither Pulk or Urin do signifie any great heat, that should be the cause of the swelling of the blood, neither are the pores stopt by an abundance of foot; wherefore there must by no means any blood be taken away, because it doth in no kind of manner, nor through its abundance, annoy the spirits; If however against reason blood should be extracted, the spirits will be so much wasted, that they will be rendred too weak for the encounter. Secondly, fince the velfels by opening of a vein, are so swiftly deplenisht, the malignant matter, that stagnates in the capillar vessels, or elsewhere, lieth hidden in remote holes and fe cret places, is thereby most impetuously drawn into the great vessels, that lead to the principal parts, where joyning with particles of their own nature, do with a joint force fall upon the strong holds of life: certainly this is a most clear demon-Aration. We must here unty the knots of

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two particulars, that were afferted above. The first is the manner of computing the bleedings, whence the first is to be counted, whence the fecond and third. The other is, why there are but justly two bleedings set down. At the first assault of fymptoms, that are derived from the spring of a Fevor, that is not intermittent (as Hippocrates here and there calls it, by which name are meant both continual and continent Fevors) the same day there ought some blood be taken away out of the right arm, to quiet and suppress the febril matter, that it may not be mixt with the mass, flowing through the great vessels, nor fiercely fall upon the spirits; for as much as this should happen, so much the quantity of the blood, that is to be ex-tracted, ought to be moderated. Moreover, the measure of blood that is to be drawn away, is to be taken from the degree of the swelling of the blood; for if the degree of intumescence or swelling be at the degree of eight, and if unto this degree dothanswer the taking away of ten ounces of blood, then if the intumescence be at the degree of four, the substraction of five or fix ounces will be proportionable to allay it; and according to this manner you must make make your computation in the others. But where the Orgasmus, or turgid working of the febril matter is appealed, and its malignant faculty suppressed, you may safely next day or two days after, by a cathartick potion expel the matter of a Fevor, thatis imprisoned in hidden places without the vessels, and in the capillar vessels. In the same manner is a malignant Fevor to be dealt withal at the first assault, though otherwise it would certainly tend to thedestruction of life, yet by so managing your affairs, the fick man will be released. There ought a laxative or at least an emollient glyster to be administred before the bleeding. Fevorish patients are oft, in the beginning tortured with a violent shaking, extream vomiting, and frequent fainting, in this case six or eight ounces of blood being extracted out of the veins the same day, the fwelling of the blood, the plethory of the vessels, and the violent working of the fe-bril matter have been quite suppressed. But possibly one may reply, that if the blood should be preyed upon, on every appearance of the foresaid accidents, it would be oft lookt upon as a very careless and needless piece of work, when ofttimes those symptoms do of their own accord (the blood

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blood being appealed) vanish away in fix or eight hours, as uleth to happen in intermittent Tertians, and some other kind of Fevors. I answer, that in such a case, the overweight of blood is never lightned without great benefit, by opening of a vein, fince the forementioned symptoms do issue from a plethory, and a hot burning matter, and granting that the violent working doth settle of its own accord, it will return again upon the least occasion; wherefore to relieve nature, there must necessarily some part of the burden be taken off. Secondly, the nature of an Orgasmus, or violent working is well known almost to every experienced Physician, whether it appears to be superficial and moveable, or permanent; and thence may eafily conclude about the necessity of bleeding.

But since it often happens, that sick people do not advise with a Physitian before the second, third, and fourth day, or afterwards, there first ought to be inquired, whether the same, or a greater, or a lesser quantity of blood should be extracted, than if a Physitian had had the occasion, at the first assault, to have given his advice. Secondly, whether nevertheless a Physitian coming the third or fourth day,

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that substraction of blood ought to be accounted the first, and whether the fifth, fixth, or eight morning after, the opening of a vein ought to be repeated: First there must be considered the degree of concoction; and the ebb of the blood, occasioned by fasting or thinness of diet, must be taken notice of, before any thing can be certainly concluded on. Wherefore take it only for a supposition, if hereafter you are not convinced of the absolute truth thereof, that nature is imployed thirteen dayes, and sometimes fifteen days, in concocting the matter of acute Fevors, and afterwards doth endeavour to separate and expel it the fourteenth or fixteenth day, according to the course of the Moon, wherefore (Hippocrates pronouncing, Aphor. 13. 1. 2. ·Onolagios nelais vine), Turimen i vit Spage, i Te) F waes Evo us, that is, those whose crisis is growing on, the night before the fit is very troublesom to them) the concoction is brought to the height or zaun on the thirteenth, because that is accounted the day, that immediately preceeds the fourteenth, on which according to the dictate of the fame Hippocrates (Aphor. 22. lib. 2. Ta offe the voonputror neine) es rearages ni d'ena inéeno; that is, acute Fevors come to a crisis

in fourteen days) the crisis of acute Fevors are wont to happen. Now fince the night before the crifis all things are very troublefom, It must be, that nature is at that time most busied, and is at the highest point of concoction, which namely is the thirteenth day or night, immediately preceeding the fourteenth day, being the day of the orifis, on which, namely the fourteenth day as I hinted now, nature doth gradually feparate, and expel the concocted febril matter, by stool, vomit, through the pores of the skin, or hemorrhage, but most frequently by urine, in the shape of a white Softlook and heavy fediment, if the concoction be any perfect, or reddish if imperfect. Here is to be noted, that crises which happen to bodies in hot and thin climates, and whose blood floating in the veffels, is very thin, and the veins free from obstructions, are very rapid, and swift, expelling the concocted matter by stool, or through the pores of the skin, all at once as it were. and with a violence: but those that lie fick in a northern climate, because their blood being thick, muddy and ropy, doth in all parts promote obstructions, and their skin is hard and thick, and the faculty of their guts is dull; for the most part they

are freed by having the febril matter gradually fent down to the Kidneys and Bladder. In the mean time it's not to be denied, but that the word Crisis by its first imposition doth denote a sudden change with disturbance, either to life or death; wherefore though I faid above, that the matter was by a crisis gradually expelled, it is to be understood, in respect of a more rapid erifis that's proper to hotter countries; and in respect of the lingring solution of the difeale, by translation of the matter, it doth justly merit the name of a Crifis; for the whole matter is expelled in four or five days, more or less. This by the way. If then the thirteenth day be the top of the concoction, and that the symptoms are gradually intended from the minute of the augment or increase, which usually happens to be in true acute Fevors, about the fifth, or seventh day, according to the variation of the Moon, it will not be safe to open a vein past the seventh day, because then the spirits are endeavouring to concoct, and the swelling of the blood is suppressed by fasting (if bleeding was not premised) and thinness of diet; what is it then you will exhaust the veins for? If hotwithstanding in the beginping of an acute Fevor, & which is defined

to be the first four or fix days, because during that time the first appearance of symproms is scarce altered) the fevorish Patient hath beyond reason and necessity gratified his stomach and appetite, and that thence the turgency of the blood hath been fed, it may be convenient to take away fome blood, though it be the eight day; fo that those things are to be defined, ac-. cording to the swelling of the blood, and the decrease thereof by a thin diet; for if so much be consumed by a thin diet in the beginning, or the first four or fix days, as is proportionable to once bleeding, it will be advantageous to bleed once besides within the seventh day, but those things are to be left to the judgement of every experienced Physitian: yet let him not be unmindful, that bleeding and purging are by Galen stated great remedies, on the use whereof life and death doth depend; neither is the former to be less suspected than the latter, wherefore that Aphorism 29. lib. 2. that was so prudently dictated, doth relate to both, viz. agxoulpar # visour, in The Joxen unien ulon; that is, move at the beginning of diseases, if any thing ought to be moved. Diseases are said to begin, as long as the symptoms of the first assault conti-

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nue without alteration, but as foon as they are fenfibly intended (provided there doth not follow a remission presently after) then they exceed the limits of the beginning and arrive to the Augment or increase of the Disease. Thence doth Galen also admonish us on the foresaid Aphorism 29. l. 2. Ut citius eveniant coctiones, circa principia melius est evacuare per vena sectionem & puryationem, that is, that the concoctions may sooner be performed, it is best to eval cuate by bleeding and purging at the beginning. Avicen doth oft highly extol bleeding, but at the beginning of a Fevor, fen. 1. lib. 4. tract. 1. Cap. 33. writing concerning the cure of a Fevor. Cum causa est multitudo humorum atque repletio, tum oportet & in principio properes ad phlebotomiam, that is, when the cause is the abundance of humours, and repletion, then you ought to apply your felf to bleeding and that in the beginning. Likewise in another place he faith, Evacuatio non est aliqua nisi sicut phlebotomia in quacunque hora accidat, & non expectatur crisis neque digestio, that is, There is no evacuation like bleeding, at whatever hour it happens, and that there be no expectation of a crisis or of digestions Galen lib. introduct. cap. 3. discoursing of Fe-

Fevors expresseth himself in this manner: Curatur in principio vena sectione, in flatu tam frigide, tam aliorum que refrigerandi vim obtinent potio confert; idem enim semper remedium accipitur, ut quocunque, morbi initio sanguinus detractio; in English thus, it is cured in the beginning by bleeding, at the state by drinking of cold water, and other things that have a power of cooling; the same remedy is always made use of, as also is bleeding at the beginning of the disease; and in another place he declares; Quod in consilii inopiam deveniunt, qui statim à principio non vacuarunt sanguinem, that those want advice, who immediately at the beginning have not taken away some blood. Alexander Trall. lib. 12. c. 2. adviseth thus, Continentes Febres solerte diligentia curari debent, subitoque id faciendum, quod internotitia dictaverit, sive missionem sanguinis, sive expurgationem requirat: maximum enim incommodum est tum omnibus morbis, tum in continentibus dilatio, which is thus englished, Continent Fevors are to be cured with a prudent diligence, and that must be suddenly done, which your knowledge doth dictate, whether it require bleeding or purging: for delay is the greatest disadvanrage to all diseases, and to Fevors. What need is there of words: we have abundantly made the case known by reasons, authorities, and experiments, whence it's evident, how barbarously they act to the ruine of those sick people, that are troubled with a continual putrid, and malignant Fevor, by taking blood away from them about the middle and end of the Augment and State. It is a great truth I shall say, that at the beginning it is life; in the middle and end of the Augment and State it is death.

Against what hath been said an argument might be here taken from what the great master of Physick doth command, Aphor. 8. lib. 1. viz. Quando morbus constiterit in suo vigore, tune victu tenuissimo utendum; that is, when the disease is in its vigour, then you are to use a very thin diet; that the mass of blood may not increase so much as to exceed the power of natures government; wherefore for the same reason one may take away blood in the vigor, that it may not too much oppress and burden the ipirits. The objection is easily refuted; a very thin diet is commended, that the spirits may not be drawn from the concoction whilst the ware busied in subduing the Febril matter; but not because of the too

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great increase of blood, since the mouths of the vessels lye almost state, and there is rather a greater proportion of it required, to supply thence a greater quantity of spirits.

It is not difficult, to extract from the premises a reason for two bleedings in continual Fevors, fince it's to be celebrated in the commencement of the Disease, or the beginning of the augment, though very seldom; for if it be performed as oft as possible at the time of the beginning, namely in the space of four or six dayes, you ought not to open a vein beyond the second time; for there ought to be at least two days between each bleeding, to recover strength; whence it's apparent there is scarce occasion lest for a third, unless thereby you intend to annoy nature in the augment, and to cut off from her strength. But if a Fevor be attended with malignity, bleeding ought not to be attempted or repeated without a great deal of caution.

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What ought to be done in the beginning of a Fevor hath been hitherto discussed. At present, we must take into consideration the cure of the augment or increase of a Fevor. First of all we must be resolved, whether at the time of the growing

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of the Fevor the fermentation is to be promoted. Physitians here are blinded in a mist, being utterly ignorant of the stages of Fevors, they follow a heedless and impious practice, daily tainting their hands with the death of their Patients; what compass do they seer by, to arrive at the exact minute of opening a vein, or giving a purge? what mark do they aim at, when they force pouders and cordials on their Patients? and if there should a faculty of suppressing continual putrid and malignant Fevors be allowed them, being ignorant of the manner and punctual time of giving them, they are capable of doing as much mischief with them, as a mad Barber with a Rafor.

Hippocrates being perswaded by this reafon, (which is to be rightly noted) doth take
the beginning of his Aphorisms from an
observation to be minded above all others
in the art of Physick. Of Bearing, in the
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long, time is swift, experimenting is dangerous, &c.

It is the third member of this precept, that expresses what is to our purpose, viz. Time is swift, that is, the exact opportuni-

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ry and occasion is of great moment; especially in acute diseases; for the same medicine is respect of time doth both kill and cure. That a Fevor doth make as it were four stages, vulgar observation tells us, feth the first while the fevorish matter lieth hidden about the subservient entrails? the Stomach, Pancreus, Lungs, the Gall-Bladder, Glandules of the Mesentery, one or all of them, thence vomiting up into the blood certain tumultuous miasms? that force it into a heat. As foon as the forefaid matter is thronged out of its lurking places, and forcibly rushed into the great veffels, the symptoms thereupon raging in heat do forthwith shew a countenance of the augment or increase. And when the whole mine of febril matter is quite floated into the channel of blood, then the ium or vigour is near at hand. At that time, there is a close ingagement with the sebril enemy, and its force being broke, Nature by her victorious arms doth expel those rebellious intestine corpuscles and sepamed humours into several finks of the bothe disease in this manner declining, the ick man doth arrive safe and well. This expedition doth contain some particulars very worthy of note. 1. At the first of the ingagement, nature doth encounter with the Fever at a distance, some steems being only scattered abroad before, the gross of the preternatural matter lodging in the deep places without the vessels, nor at all mixt with the torrent of blood. 2. The Fevor increasing, the lesser part of the marter is confused with the blood that flows by, but the greater part doth as yet remain fill and quiet in the spring. 3. At the vigour, all preternatural bodies are closely intermixt and confused with the natural. From hence doth shine a light, whereby the bottom of the difficulty wound up in the foregoing discourse may be plainly known and discovered. Wherefore fince fermentation doth tend to the fame end concoction doth, namely of subduing the heterogeneous quality of the adventitious minims that are got into the blood; and that whilst the disease is yet in the augment, only part of the Febril matter is crept into the blood, and not throughly infinuated into the depth of the forementioned scarlet juice: it will prove a help no ways deceitful, if the fick man doth take a Disphoretick draught, well impregnated with volatil falts, whereby he may be put into a smart sweat, certainly a very proper means, through

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through which the vital power may free it felf from those hurtful corpuicles; fince as yet the spirits are numerous and vigorous, and are not so much ingaged by the intestine enemy; whence consequently they have still a power of expelling; the fumes and foot have not yet filled up the passages of the body, nor pores of the skin, being left open for natures cutaneous evaporation; a part only of the Febril matter is here and there loofly intermixt with the blood, and may easily be forced out thence. From all which it doth plainly appear, and is inferred that fermentation (fie upon the abuse of the word) is in this case to be rendred easie; the liquor of the veins being thereby attenuated, occasion is given to the spirits to fly together to make an united force to grind off the Ring of the Febril matter, and thereupon to expel it. But though the fermentation is to be rendred easie, it is by no means to be increased and intended, for that would put the Bitumen of the blood into too high a flame, and through the crackling and vibration of the falts would occasion a very dangerous storm in the blood. Of this nature are almost all the remedies that are proposed by the Fermenters; namely Aqua Epidemica, Spirits of of Hartshorn, and all the other fiery cordials, as shall hereafter be resolved more at large. Neither do I esteem those reasons I have now produced so much, but that the many experiences whereby I have delivered some hundreds after the manner aforesaid of their continual Fevors without suffering them to come to the height, do

more clearly discover the matter.

According to the mark spoken of before let us enquire, what harbour this Rhomb of giving her cordials by spoonfuls will bring them to; undoubtedly if the Fevor be any thing outragious, there is danger of shipwrack. For things that are taken by spoonfuls contribute matter to the inflammation and fire, increase the matter of the foot, and really stop the pores; moreover, do not concoct the least part of the febril matter, neither do they separate or expel it being concocted. Wherefore if a Fevor is of its own accord carried on to the height without doing any thing, and the febril matter be more closely and intimately knitted with the blood and spirits, and the whole mine be disturbed, and profused into the great veffels, certainly in doing ill, they must speed much worse. What they have acted in the increment, hath just now been

been shewed; at present pray give your judgement; are your toothless wifes in the country more dextrous in curing a Fevor, or Fermentition Physicians! Neither are the fick themselves so void of sense, but that they are sensible, they are precipitated by the burning cordials of Fermentators in the state of their disease into their too early Tombs. The forementioned Cordials derive their burning nature from an impure Sulphur, which doth not only plentifully abound in the spirits of wine, the menstruum of all those compounded alexipharmacal liquors, but the ingredients themselves, especially the aromaticks contain excrementitious Sulphur's and impure falts; whence it happens, that those that have liberally taken of them, arrive sooner to the end of their fatal journey. Wherefore it's plain enough, that by these things the fermentation is intended, the mass of blood is forced into a fiercer fire and burning, and the whole fink of the Febril matter, which only partly flows to the blood, and partly remains in its hidden station, is. violently suckt up, and drawn in by the circulating juices, and is united with them in every particle; so that to give the prefaced cordials, which increase the fermentation, and

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and do not at all render it easie, by a most fubtil and diaphoretick vertue, is with purpose to kindle the body into a flame, and rob the fick of his life. However that inquiry may not be pretermitted, what admirable effects do iffue from the fore instanced Aqua Epidemica, we are to be refolved from the examination of the context of the simples. Tormentil Root is in the front, whose power doth reside in a ponderous fixt falt, and for that reason no part of it doth ascend the Alembick. Liquorifb in this place is termed alexipharmacal; which was never attributed to it by any Physician, nevertheless it was possibly added, to abate the acrimony of the other ingredients: but fince it doth also obtuse the attractive vertue of the Menstruum, and render it incapable of attracting the falts of the simples, neither doth the least particle of it climb out of the body to the head of the Still; certainly it ought justly to be rejected hence. Moreover, who but a mad man would commend Mugwort, Agrimony, Betony, and other such like herbs, against the Plague, according as they are inferted by the former age in this composed medicine?" These though they use some small force against the venom of the air, yet other AlexAlexipharmacals, as long as they are far more deservedly commended, for oppugning this Epidemick venom with all their force,

ought to be preferred.

What concerns Spirits of Hartfborn, you would stand in a doubt, whether they be more prevalent in their pernicious qualities, or in their ungrateful tast. latter is taken notice of by all, that have had the occasion of tasting them; the former is very amply afferted from the complaints of those that have used them; for they are no fooner past the throat, but have caused a furious burning in the stomach and entrails, raised the fermentation to the highest pitch, put the whole strudure into a fire, and destroyed the spirits and strength of nature. All these evils do proceed from an impure and venomous fulphur, that is latent in the spirits of Hartshorn, and corroding fiery volatil falt, that is united with the foresaid sulphur. Notwithstanding though the aforesaid spirits are so virulent and deleterious, they are not quite to be rejected, for experience and authority do witness, that the most mortal venoms, namely, Antimony, Quickfilver, Arsenick,&c. do contain within their bowels an alexipharmaçal vertue, which is very powerpowerful in expelling of venom, and other subtil malignities. Wherefore if the spirits of Hartsborn by a particular preparation are purged of that virulent sulphur, and the force of its corrosive salts extinguisht, there will be remaining only a pure cordial sulphur, and a most subtil volatil salt, which by their close union and coalescence do not only contribute strength to the vital spirits, but with an united force sirst extinguish the malignant miasms, and afterwards expel them. These spirits do not burn and instante, like others, but consist of a pure ethereal and most penetrating body, and are samed not for intending the fermentation, but rendring it apt and easie, whereon the efficacy of the cure doth chiefly depend.

The fame of Lapis Contrajerva against putrid and malignant Fevors is spread among most people, but how deservedly, let those judge, that have made trial of it. The Contrajerva roots, which are the base of the composition, besides dregs and a mealy thickness, contain neither volatil, not fixt salt, that is effectual, nor any quality, that may be discovered by scent or rast, but on the other hand, it is inferred from many experiments, though the root hath

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hath been given in a double dose to those. that lay fick in fevors, that it scarce did a pins worth of good. The Virginian root doth potently heat and kindle the Bisumen of the humours; so that it doth not effect so much good by its diaphoretick vertue, as it doth harm by its caustick quality. Cochenil grains do recreate the fight by its colour, but not at all the vital spirits by its cordial vertue. Priests do swear on the words of the Gospel, but some Phyfitians swear more religiously on the stupendious vertues of Extractum Cardiacum, described above. But whence such great vertues should proceed, may be lawfully inquired into. Certainly, in all extracts the most active particles do together with the Menstruum, that is evaporated, fly away into the air, a gross dreg that is without any four in it, remaining in the bottom, and constituting the body of the extract; pray tell me, are there not wonderful faculties, for suppressing malignant Fevors, hidden in the bowels of such a kind of Extract? Moreover fince Narcoticks are the chiefest parts of it, the vital spirits being now ingaged at the deepest, and somewhat giving way, are not to be quite cast down and overthrown by such Nar-

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Narcoticks, or their strength to be fettered by them. Wherefore those things are to be given with a great deal of caution and scruple, especially to such, as lye languishing, to avoid the throwing them into a sceping bottomless pie, as most may remember, hath happened to many. Others endeavour to relieve cast down Nature with pretious fragments, Bezoar fone, Pearl, Coral, and shelly medicines, as if they would redeem her for a certain price. from a deplorable state; but to no purpose, for these premised stones, since they do chiefly confift of a ponderous earth, though pure and stan parent, being taken inwardly, through their weight fink to the bottom of the stomach, which for that reason they do extreamly burden, and oppress, and occasion obstructions round about. Under what notion they refresh the heart, and vital spirits, and oppugn the malignity, hath not been my luck hitherto to discover, it's true, through their splendor and rayes they recreate the optick, and likewife sympathetically the other animal spirits; but do not in the least strengthen, but by dispersing the sight rather weaken them. When they are reduced into powder, they contain nothing that is volatil, nor any

any fixt falt that may be advantageous for the liquor that floars in the ftomach to extract, unless they are calcined before. If you instance that the acid liquor of the stomach, which goeth by the name of a Ferment, doth extract the tincture out of them, that contains all their energy, and entire faculties, take for anfwer, that, 1. At the time of a Fevor, the flomach is quite deprived of that acid humour. 2. The tincture of almost all stones are not real tinctures, but alterations and concoctions of the Menstruum, proceeding from the matter, that is to be extracted. which notwithstanding doth not communicate the least thing to it, fince after the extraction is made, if it be weighed in a scale there is not agrain of its weight lesfened. Moreover, what concerns the Bezoar stone, I have known seventeen grains of it given to a Vintners child, that was scarce two years old, without the least operation or alteration following upon it. Some that were grown up, who had taken half a dram of it, found no kind of alteration, but an oppression and weight at their stomach; besides I pass by, that the greater part of those stones is fictitious, and counterfeit.

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At the conclusion of this chapter, there remains something to be said, concerning the use of Epispasticks. According as they are usually applyed by Physitians now a days, their greatest benefit is, that a few (namely such as lay ill of Fevors) having undergone the punishment of Vesicatories, had recovered their former health, and many that had received the same kind of punishment, were dead. At present oughtto be inquired into the matter of fact, whether those few ought rather to bless Veficatories for their recovery, than many others to curse them for being the occasion of their death. The case is to be decided by the consequence; a few that have used Vesicatories, have escaped, many that have used Vesicatories, have perisht: it may then probably be concluded, that the use of Veficatories is pernicious and mortal. But let us take the reason of the thing into consideration; for the most part, that small number, that have escaped from a continual Fevor, (after the concoction was past, which through occasion of their lowness of strength was not discovered) have had Vescatories applied, which by reason of the concoction and separation have drawn forth a great puddle of falt and sharp water in-

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to great bubbles; but those, on whom the precited Vesicatories have been affixt, where there hath been no concoction or separation before, have had a small quantity of moisture extracted into low blains, which for the most part is a mortal sign; so that it doth appear thence, that the cause of their cure and recovery is not to be ascribed to the Vesicatories, but to the subduction and concoction of the malignant water

and heterogeneous humours.

Secondly, in Epispastick medicaments the Cantharides perform the chief work, the relation of whose properties I judge may be advantageous. They are of a most hot and burning nature, they oft occasion Fevors, great tortures and pains, a disturbance of the humours in the vessels, and a very sharp irritation, which a dysury and bloody making of water do oft sollow, they are extreamly hurtful to the brain and shnews, and suddenly destroy ones strength, so that they are markt with a signature of the most malignant venom, though only applied externally.

Wherefore if Epispastick plasters, being thick spread with Cantharides, are applied to a Patient, that is ill of a malignant. Fevor, at the time of the vigour, when his

strength

strength is decayed, do they not increase the Fevor, put the malignant humours in-to a rage, heap up one malignity on another, quite oppress the principal faculties, destroy the forces, and certainly deprive the Patient of his life? Possibly here may be objected, that though Vesicatories do occa-sion a great deal of hurt per se to a sevo-rish body, yet per accidens they do abun-dance of good by exhausting the malignant ferum, and putting the external parts to pain, whereby there is a revulsion made of hurtful humours and steems from the brain. Hereunto is to be replied, that in this case, the blood is most frequently wanting of moisture (whence the febril fire burneth the more violent) so that it's posfible only to attract a very few drops, whereby a heap of very great evils is brought upon the Patient. Secondly, fince malign corpufcles are chiefly seated in fuliginous falts, you cannot possibly by any device extract them; for at the time of the state, they are so very closely and intirely soldred to the humours, that to draw them afunder, is by no means feafible. That these things are so, is proved by this argument; The Ichor or bloody moisture, that by an Epispastick is attracted outward at the

the time of declination, or concoction and separation, doth swell out in a great quantity under the blains, which when cut doth leap out, being of a sharp tast, fiery and falt, because it's laden with those foresaid fuliginous and malignant falts; but being expelled at an unseasonable time, appears limpid, infipid and fresh. Moreover I will now tell you, what the vulgar will scarce give credit to; namely, that Vesicatories being applied at the declination to parts, that are not so convenient, have very suddenly fnatcht fick Patiens away out of this fublunary orb. A certain person, that was ill of a burning and malignant Fevor, aged thirty two, after he had lain fick fourteen days, not without some signs of perfect concoction and separation, in manner that on the fifteenth he walkt several times up and down his room, being attended with all characters of health, to expel the latent malignity outwards, had by the advice of two fermenting Physitians, at the hour of Rest, large Vesicatory Plaisters applied to the nape of the neck, and the wrists. The following morning the Fevor was burfted out again burning enough, his speech was taken away, and was grown light headed; but that they might make an end of their H task,

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task, on the fixteenth they took the man out of the world. Doubtless the malignant salts being attracted out of the whole body to the brain, and nervous parts, did very suddenly extinguish his forces and spirits.

Many other-stagical cases I could produce for testimonials, did not the purpose of a compendious tract diffwade me, wherefore take the precited in lieu of all. It may be stated for a certain, that at the beginning of a malignant Fevor, especially when it hath attracted the feminary of malignity out of the air, (which feldom happens) Epispasticks being applied to the remote parts, the symptoms have been subdued immediately, and the Fevor extinguisht; but then they were applied within the third or fourth Likewise, being affixt to one that is taken with a pestilential infection, they have been very advantageous. In some cafes they may also be applyed to convenient parts at the declination.

My business doth only permit me to premise these particulars in this first Section; in the second section which will e're long follow, I shall apply my self to give you a description of putrid continual and malignant Fevors, likewise of the Small Pox, and Meazels, by their foundation, subject

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and symptoms, and likewise shall subjoin practical observations, and the true method of cure and remedies. In the third section shall discourse of the division of Fevors, and in particular of intermittent Fevors.

Upon so important an affair as the Practical part of Malignant Fevors, I ought not to make so sudden a recess, as to leave those salutiferous maxims, premised in this Tract, only astipulated with reason, but to recommend them to you confirmed by experience, abstracted from those cures, which for success and happy event are not to be conferred with the vu gar methods. Among the number of them I could here produce, shall only insert some few of the last years date, whence a proof sufficiently evident may easily be reduced.

The last preceding autumn I was called to one Mr. Van Mildert, a Dutch Merchant of considerable note, aged about twenty nine, of temperament Pituitous and Melancholick, not robust of constitution, but of a rare texture of body. On the Sunday he was surpised with drowsiness and heaviness of his head, a Catarrhe in his throat, an ulcerous lassitude, a rigor or shivering and shaking, a nauseousness or in-

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clination to vomit, and some other symptoms dependant on the former: during the na tirst four days he used the prescriptions of tie one of the elder City Physitians, the chief hi whereof, to the best of my memory, directed th fome vulnerary vegetables for a decoction; another was a decoction of Carduus B, in the posset ale, intended to move a gentle vomit, and after that, advised bleeding. The fifth day I made my first visit, and found the Patients fense of fight and hearing much diminisht, his pulse extreamly languid, inequal in motion and debility, a little more frequent than in the state of health, the urine thick, turbid, and a little high coloured; the tongue scabrous, red, dry and fissured; his thirst was so extream, that no quantity of any former drink could in the least abate By intervals his rational faculty was perverted with a Delirium that would continue several hours. Touching his sleep fome dayes and nights he was wholly reftless, other dayes soporous and comatick a case of greater difficulty I have not me with, neither have I observed any to escape fuch fymptoms, being universally declared mortal, viz. the pulle at the beginning extreamly languid, the tendons of the will convell'd and vibrating, the animal faculty fup!

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supprest and broken, the urine very crude and indigested, &c. This being a malignant Fevor and contagious, (for the Patient had lately conceived the seminary of his distemper at Amsterdam, where it was then Epidemick,) certainly is a case that may give evident testimony of the effect of the method premised, and afferts the rationality of the practice thereof. For only at the beginning I ordered a Laxative Glyster, and not after; prescribed an Alexipharmacal Apozem with particular ingredients to allay the fury of those lixivious and absorbing salts, that continually sublimed to the upper part of the stomach, and occasioned his excessive drought, which proved so successful, that in twenty four hours after, no more complaint was made of it, during the whole course of sickness. The fixth, seventh, and eighth day were exhibited greater doses of Alexiterial powders, and decoctions, than afterwards; foon upon this the vital faculty began to revive, and pulfate so, that it might sensibly be perceived by the touch, his urin began to be digested, and was voided in greater quantities. On the eleventh day the urine was perfectly concocted, and the pullation of the arteries was vigorous; all his sym-

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proms did much abate in their violence. except the deprava ion of his rational faculty, which perfifted by reason of some febril steems, and calcined falts, that ascended to the brain. It was here, if at any time, that Epispasticks might be of some use in revelling those ac imonious steems, and exhausting part of the salin serum, that abounded and was separated from the blood, likewile there being present all the good figns of concoction, teldom doth any ill issue from them. The thirteenth day they were applied to the legs, and arms, according to expectation they attracted a valt quantity of ferum, which continued to flow copiously for some days after. The Patient was perfectly restored.

The first Aphorism of Hippocrates, ie. Occasion and opportunity is of great moment, is in no case so important as in Fevors, especially if malignant; for every day and hour you have an opportunity of applying remedies, that for the most part do cure the distemper; but if you slip this opportunity, and those remedies are advifed late, that ought to be applied foon, and those foon, that should be administred late, you must certainly destroy and kill the Patient.

Patient. As for instance, in the case here recited, if Epispasticks had been applied on the tenth or eleventh, before a digeftion, or if he had been blooded after the fixth, or if a Purgative Glyster had been made use of near the state of the disease, or if Antifebrils and Alexipharmacals had not been given in the beginning in large quantities, whilft there was strength and fpirits to subdue the materia febrilis, in all probability this person must have stoopt to

the distemper.

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The Malignant Fevor, by which Mr. Drakes fon in Hind Court in Fleetstreet was attackt in August last, in point of eminent danger and difficulty, doth almost parallel the preceding. He was aged twenty four, and of a sanguine temperament. It was from a pernicious air on board of a ship of war, and the use of hot liquors (which for the avoiding inconveniencies, arising from the nauseous salin vapours of the Sea, most do submit themselves unto) this distemper had taken its growth, and with a speedy career was advanced to a great defect of vital spirits, the arteries scarce giving any testimony of their pulsation; likewise a black scabrous footy tongue, an insatiable drouth, a most piquant burning heat, want H 4

of sleep, anguors, continual jactitations, dejection of appetite, nauleousness of stomach, frequent and opprest respiration, and an intermittent delirium were symproms that were very urgent. The seventh day gave an indubious remark of the malignity, the Patients skin being univerfally pencill'd with red spots, Petechia rubra. The course of remedies was thus managed. The fecond day he was blooded out of the right arm, to nine ounces; the third day received a laxative glyster in the morning; at four in the afternoon, an Alexiterial Apozem of Rad. Scorzon. Bistort. acetos. fol. ulmar. pimpinel. galeg. aictamn. cret. dracunt. sem. Hormin. citr. there was al.o added a small proportion of scordium and Absynth. Rom. which latter seems to be the fole specifick against nascousness and vomiting in Fevors. To these forementioned were added some salts and spirits to contemperate their heat and refine their [nlphurs. The first, second, and third doses of this Apozem were very liberal. A day or two after was prescribed an antilipyrious powder of Bezoara. mineral. Coral. Terra Sigil. Sal. Prunel. &c. By which means the body was gradually promoted to a Diaphoresis, and Diuresis, and lastly there appeared

appeared a large Parotis or inflamination under his ear, a symptom Pathognomonick to peftilency and malignity, which being suppurated, deterged, and consolidated, the Patient arrived to a perfect state of health. Moreover both in this and the former case, was prescribed a cordial julep, to take by intervals, for the present support of the vital and animal spirits. Likewise twice there was made use of an Opiat. A Diarrhea, or loofeness survening, or concomitant to a malign Fevor, is judged a symptom as urgent, as any other whatfoever, and doth not only require particular remedies, but oft such, as the malign Fevor doth counterindicate, and confequently must shew a very ill aspect to the life and recovery of the Patient. Such was the case of Mrs. Read on Lambeth Hill, aged thirty, and of temperament phlegmatick and melancholick, her Fevor was uthered in with a looseness so very importune, that on the ninth day, her Visitors and Neighbours expected her departure: on the same day was I made my first visit, and having exmined, what was prescribed by her former Physitian, (who likewise had a very ill opinion of this distemper) and detecting some great errors in this course, was in hope thar

that by their rectification, and the prescription of means more rational, I should restore her to former health. I prescribed a Restringent Cordial, Anodyne Glysters, Antifebril Adstringent Powders, and an Alexipharmacal Apozem. Thrice also there was an Hypnotick given. But the chief means was the method, (which I need not here repeat) that proved so successful, in conque-

ring this dangerous distemper.

I shall forbear inserting the recital of many other cures of this nature, fince these are sufficient to convince you of the truth and excellency of this method; and pass over to an observation I have universally remarked; that all or most malignant Fcvors, though dextroufly cured, leave fuch an impression on the bowels, that thereby within a month, two or three, another distemper is ingendred, that for the most part proves obstinate to cure, and in this particular they imitate the manner of operation of venoms or poylons, which being accidentally taken inward (and though afterward well cured) yet occasion such an impression on the bowels and blood, that in a fortnight or month, or fometime longer, either the Patient loseth his nails, the hair of his head, and the cuticula, or upper skin of his body; or falls into a Jaundice, Consumption, Dysentery, or some

other distemper.

The distempers that are posthumous to malignant Fevors, are chiefly a tertian Ague, a Pulmonick Con umption, a Hectick Fevor, Rhumatisms, Scurvey, Dyfentery, Yellow jaundice, Cachexia, and a Cephalæa.

Among these the Pulmonick Consumption seems to transcend the others, in respect of danger and stubbornness of cure, and doth very frequently grow out of the

cinders of a malign Fevor.

One Mr. Martin a French Merchant, his age not exceeding thirty, and lodging in Fanchurch street, partly through a hot temperament of his bowels, that was natural, partly through the fatigue of his journey from Plimouth hither, and intemperance of diet, fell into the burning flames of a malignant Fevor, which his purpre fpots breaking forth on the feventh day throughout the whole field of his skin, did amply detect, whereunto adjoyning his preceding vomiting, and most importune hiccough, his impatient thirst, dry red fiffured tongue, deplorable head-ach, flammy urine, and low frequent inequal pulse, **spake** spake the distemper to threaten an ill event. Having ordained his diet to be very thin, and prescribed a laxative Glyster in the moining, being the second day of his Fevor, a wised eight ounces to be extracted by phlebotomy out of the right arm, at four in the afternoon. The blood appeared very thin, and in point of colour tending towards a blew, whereinto I instilled a few drops of spirits of Nitre, to discover the constitution of it. Upon the commixture, the colour turned to a vitellin citrin; an indication the blood was very fulphurous and hot, and not easily to be reduced to a Crasis. Six hours after bleeding, he was to take a dose of this following mixture.

R. Rad. Scorzoner. rec. zij.
fol. ulmar.
lujul.
Rut. Caprar. ana mij.
Sem. Citr. zs.
Contundantur optime in mortar.
marmor. pistil. lign. sensim
affundendo
Aq. Card. Ben.
scabios.
Ceras. nigr. ana ziiij.

Liquor valide express. digerendo calore leni Balnei depuretur, in quo diffolv.

Syr. Borrag. Melif. sacchar. perl. ana 3j. m. f. Julap. Capiat 3v. bis per diem mane & sero.

To every dose of this mixture was added half an ounce of my Aqua Alexiteria, which wrought so great effects as in few days to extinguish this violent heat, and expel the malignity. His ordinary drink was the decoction of Hartsborn, and Scorzonera root, sweetned with syrup of Succory and Borrage.

His tongue growing very scabrous and foul, he made use of this following collu-

tion with great success.

R. Mueilag. sem. cydonior. 3iij. Suc. plantag. 3). Mell. rosar. 3vj. Sal. prunel. Bij. m.f. Collut. que sape colluat os.

July was scarce begun, before this Patient had quitted his sick bed, and was congratulated by all his acquaintance for the unexpected restitution of his health; But what was usually subsequent to a malignant Fevor, happened here also; some three months after, another distemper attempted his lungs, in so violent a manner of coughing, that in a short time the whole body was emaciated, and depredated by a Hectick Fevor, against which these remedies were prescribed.

R. Rad. buglof. 38.

Jujub. sebest. ana Par. ij.

Flor. borray. violar. Pj.

Glycyr. ras. 3j.

Tamarina. 3iij.

Som. fanis. d. Jij.

Coq. in Aq. Font. q. s.

In Colat. 3iij.

Dissolve man. Calabr. 3j.

Syr. ros. sol. 38.

m. f. Pot.

This operated four times.

The next day I ordered a fontinel to be cut in the left leg above the knee. The third

The Bodern Pratice.

III

third day he began with this decoction.

R. Rad. Sarsaparil. 3v.

Lign. Santal. citr.

Rasur. Corn. cerv. and 3j.

Coq. in. Aq. font. lb. viij. ad consumpt.

medietat. sub sin. addendo

Rad. Personat. maj. 3ij.

Lapat. Acut. 3j.

Fol. Heder. ter.

farsar. ana m. iij.

Jujub. sebest. ana Par. xv.

Dactyl. enuc. Par. xij.

Passul. mund. 3iiij.

Glycyr.raf.zjß.

Sem. Anif. 3x.

In Colat. disfolu.

mel. coct. zvj.

Sacchar. cand.ziij.

m. f. Apoz.

Capiat ziiij. ter per diem horis medicis.

Besides, an hour before he took the drink in the morning, and an hour after at night, I gave him twenty grains of my

Specific. antihectic. mixt with a dram of sugar of Roses.

To these means we sensibly observed the disease give way daily, by the digestion of the acrimonious matter, and the facil expectoration of it, and at the termination of three weeks his cought was quite ceased, his appetite returned, and began to increase in sleth, and so to enjoy his health, wherein he hath been happy ever since withour

the least relapse.

Another president of the subsequence of a Dysentery upon a malign Fevor, I shall instance in the distempers of Mr. Coen, an Elder of the Frenc's Church in London, whole age was little short of threescore, his temperament bilious and melancholy, and of habit of body very thin and maigre, There was scarce ten weeks interval between a torrid Fevor he had sustained, and a violent bilious diarrhæa, that in the space of two or three days changed into a dyfentery, whose fury was discernable in insupportable gripes, and vast discharges of blood by stool: the weak pulsation of his arteties, signified a great impair of the vital faculty. A crazy constitution, a declining age, and a torminous Hæmorrhagious dysentery imposed an obligation on me of proceeding cautiously and gently against the distemper, but withall considering the quick motion it useth in its tendence to a fatal determination, required medicines, that should avert it, by speedily stopping its career; to the accomplishing of which was prescribed first this following bole.

R. Rhab. el. pulv. 3/8.

Bezoard. min.

Ter. sigil.ana gr. xij.

Sal. Absynth. gr. viij.

Laudan opiat. gr. j.

Conserv. ros. vet. q. s.

m. f. Boli duo deaurandi
quorum capiat unum vesper. sub ingrin lect. & alterum sequenti aurora.

These Boles gave two or three dejections more, than he used to have ordinarily, but without occasioning any gripes, and moving at such great intervals between each stool, did not at all diminish his strength. Likewise sleeping moderately in those intervals rendred those turbulent humours very pacifick, neither did he eject any blood all that day; the following night sleept very quietly. The next day the number of his motions was much lessened, but some tincture of Blood was still observable in the ordure. The distent per continued

at this degree some two or three days, and then I gave order the forementioned Boles should be repeated, which put an end to this great malady; for the next day had not above two or three motions. For his ordinary drink was advised this Emulsion.

R. Amygdal, d. excort. 3j.

Sem. cucurb. 3ij. Sem. cydon. 3/8.

Sem. papare. alb. 3js.

contund. in mortar. marm. pistil. lign. sensim affundendo Decoet. ras. corn. cerv. lb. ij.

in express. dissolv. sacchar. albi ziij. Aq. cinam. ziij.

m. f. Emuls.
capiat ad libit.

This cordial did him great service in supporting his vital faculty.

R. Aq. rofar. 3iiij.
Aq. menth.
Ceraf nigr. ana 5j/8.
Aq. Cinam. 3/8.
Spir. menth. 3j.
Confect. Alkerm. 3j.
Syr. cydon. 3j.
corticut. 3/8.

H

m. f. Julep. Capiat cochl. ij. altern. hor.

Those days excepted, on which he took his cathartick bole, he made use of this cordial and adstringent Electuary.

R. Corn. cerv. ust. Dj.
cui instill. spir. corn.
Cerv. rectif. gut. x.
& conter. in mortar.
Vitr. huic adde
Coral. rub. opt. lævig.
Ter. sigil.
Bezoard. min. ana Ds.
Croc. angl. gr. ij.
Diacydon. s. q. s.
m. f. Electuar. pro
duabus. dosb. matut. & vespert.

Since no practice or method of curing a distemper ought to be received, unless it can be justified by the application to several ages and both sexes; I am induced to give you the narrative of a malignant Fevor, Captain Mannings daughter in Bellyard Kingstreet was afflicted with: her age was between nine and ten years; her temperament sanguine and bilious, habit

of body thin and lean, and in respect of the whole composure weakly. The second day the malignity appeared in a delirium, and oppression of the vital faculty; her heat was very great, and drought very urgent. The same day about four in the asternoon I advised, she should bleed about five ounces out of the right arm; the next morning a glyster was given. Her ordinary drink was this following decoction.

R. Rasur. Corn. cer. 3j.

Rad. scorzoner. 3j/8.

Tamarind. 3/8.

Coq. in Aq. font. q. s.

in Colat. lb. ij. dissolv.

Syr. acetos.

borrag. ana 3j/8.

m. f. Apoz.

Capiat ad libit.

Some four hours after bleeding I preferibed an ample dose of an Alexiterial Julep, with twelve drops of Essentified spirit of Hartsborn dropt into it, the same wasto be repeated for two mornings and nights following; the operation of these medicines was signal in a gentle sweat and breathing, which on the seventh day extinguish the he

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to hts Fevor and malignity. Though this course proved so succeisful, as to restore her to a perfect health; I am apt to suspect that about the next Autumn she will be troubled with an intermittent Tertian, because malignant Fevors, as I observed before, generally leave an imp efficien on the bowels, through which in a thort time another distemper is ingendred. This observation not long fince was verified in the tertian ague, one Mr. Powel a Taylor in Kingfreet Covent Garden was furprifed wien, three months after I had cured him of a very malignant and dangerous Fevor. The principal medicine, to which I attributed the cure of this Fevor, was spirit of Hartshorn, depurated of its poytonous Sulphur and falt, by a late invented process. That the sulphur and sale I do defecate by the forementioned process, from fpirits of Hartshorn, is venomous, appears by these circumstances. 1. The quantity of two seruples is a proportion sufficient to kill a dog! 2. The scent of it dorn commonly occasion vomiting, and a raging headach. 3. The spirit of Harrshorn that is thus freed and depurated from this noxious fulphur and fale is far more powerful in proviking fivent and urine in the same quantity and dose, than the common spirit. Neither doth the faid spirit cau e that burning heat, anguor, and fuffocation, which the common utually doth.

His Tertian Ague, though the paroxysms were durable to ten or twelve hours, and the other symptoms very fierce, yet was easily conquered by taking three doses of my Pil. Polychresta.

Since a greater number of particulars than two or three is required to render an observation universal, I shall intert one or two more. I have a page or two before given you the journal of the malignant Fevor of Mr. Van Mildert; it was in him also the preceding objectation was confirmed for about two or three months after his recovery from the faid Fevor, he was taken with a violent Rigor, i. e. Thivering and shaking, a raging headach, vomiting, a great drought, a bitter tast in his mouth, and after the Rigor a very Imart heat, and towards the latter part of his paroxylm did fuffer a most immoderate sweat, a sign this single tertian Ague would prove very obstinate. After a Laxative Glyffer, there was eight ounces of blood drawn out of the right median on the intermittent day. Every other day he took a dose of a Vinum Medicatum composed out of Hepaticks and purgatives done up in a bag, and insused in an anatick measure of Rhenish Wine and Succory water. Having used this thrice he intermitted eight or ten days, and then took two doses of Antisebril Pills, which terfectly cured him of this stubborn Tertian.

Mrs. wilkins a Tradelmans Wife in Drury Lane, three or four days after delivery of a child, was on a sudden taken with a shaking, after that with a very fcorching heat, and a opprest frequent respiration; the second night raved, and was very turbulent. This Fevor, which from those symptoms might justly be termed malignant, took its rife from her wine Cawdels, and supping of hot Spirits, which the good women had given her, to support her strength, whereunto her eating meat, as Pigeons, and other heavy food, did much contribute, in the caufing an ebullition of the blood, and suppressing her Lochia. I advised her to have the Saphana opened, for derivation and revulsion, and caused Suppedanea to be applied composed of Pickle-herrings, Soap and Salt of Tartar: Prescribed Whey made by instilling some few drops of spirit of Salt into Milk, hercof a half pint to be taken warm

warm three times a day with xxv drops of essentified spirits of Harts-horn; the success of these remedies appeared in the quick return of her purgamenta, and occasioning a moderate Diaphoresis, which soon put a termination to the Fevor. She enjoyed her health near ten weeks, about which time she sell into a melancholy, and a great palpitation of the heart, not without frights and fears. This continued eight days, when the Moon being at full, she grew maniack or Bethlem mad. I ordered the should be kept in a dark room, and be blooded nine ounces out of the right arm, two days after gave her a dose of Hartmans Antimonial, Cathartick Pills, which operated very well. Upon three days intermission repeated the same Pills. Next morning the took this following Electuary,

R. Vitriol. Lunæ fix.

Bezoard, Lunar.

Sulphur. Antimon. ana Jij.

fal. succin. 3/8.

Conserv. Borray. 5j.

m. fi. Elect.

Dos. 3j. mane & sero

superbibendo seri lactus
borraginati 3vj.

For her o dinary drink one ounce of Tin-Etura Antimaniaca was added to six gallons of small ale. Her hair was shaved off, and every morning fomented with the decoction of Marsh Mallows, Violet Leaves, Pellitory, St. Johns and Chamomil flowers, whereunto was affuied some spirit of Amber. There was also an issue made above the left knee; the use hereof in eight and twenty days did restore her to her former senses, and perfectly freed her from that distraction, so that she hath never been troubled with it fince. The malignant Fevor I formerly cured Mrs. Lamot of (whole Hufband is a Merchant in Thames street, near Fishmongers Hall,) and some weeks after a violent Rhumatifin following, which was removed by two bleedings and a dose or two of Hydrotick Pills, is a farther confirmation to me of the preceding observation, which to illustrate by a greater number of instances I judge is needless, and therefore shall proceed to recommend to you a remark of use so important, that it may gain the Physician repute and save the lives of many Patients. The observation is such that it gives me occasion to admire so many preceding ages have so grosly erred in their practice, and doth likewise detect the cause why

why malignant, and indeed most Synochical-

Fevors prove so oft mortal.

It is an universal theorem, that in these Northern Climates Fevors are terminated not critically, but flowly and gradually, by sweat and urine, (per Diaphoresin & Dinrefin) Through the former, viz. Iweat, the salin volatil, and fuliginous matter is expelled; through the latter; namely urine, the fixt falin and lixiviated matter is excern'd. To accomplish this usually (as I faid before) are prescribed Diaphoreticks, as Aqua Epidemica, Theriacalus, Scordii Composita, &c. of one, or more of these, the measure of an ounce or two is mixed with the same proportion of Alexiterial simple waters, and hereof two or three spoonfuls is to be given, every second, third, or fourth hour, according to the Capricio of the Physician, undoubtedly the effect doth not answer his expectation, and no fweat appears; upon this it may be double the quantity is to be used, and yet not a drop of sweat is forced out; then apologizes your Doctor for himself, and tells you, if the Patient could but be brought to iweat, he would foon mend, and further prognofficates, if he doth not fall into a a sweat by to morrow, or it may be next day,

day, he is a dead man, and so Buenus Noches. Now I will render it as evident to you, as the light of the Sun, that Mr. Dofor is the caute of this mans death, that is to be understood, xara mond. There being nothing more familiar among the fermentators, than to explain their notions by thcorems taken from the Brewhouse, and Kitchin, I thall make use of arguments defumed from the same Categories. There is possibly a piece of meat to be prepared for to be eaten, which to maturate or take away the crudity of it, to mollifie or render it tender, to diffolve and to purge it from its filth and impurity, is to be boiled; if you put to it falt, wine, or other ingredients, and there be not a sufficient proportion of water, or that the water boileth away too much, especially if the meat be left dry, it will not only harden, but be burned, smell of adultion or empyreum and toot, and be entirely corrupted and spoiled; whereas if it had been supplied with water, the meat would have been infined, concocted, and depurated from its recrements and impurities, which it casts forth into a scum. The case is not different in the blood, that boyelth up in the veins and arteries of fevorish Patients, which being fall of falin, aduft, and other

other hexerogeneous particles, is by challisted on to be depurated of the faid impurities; if then the blood wanteth water or ferum, to dissolve those falin particles, it must necellarily growdry, coagulate, and be burnt up; and consequently death must be the unavoidable issue. Now observe, that a Patient, that hath been broyling under a contimual Fevor for eight or ten days or longer, his entrails feorche and parche, his blood dried up, and affected with an empyreum, how impossible it is, he should be put into a tweat by hot cordials though diaphoretick, 35 Aqua Epidemica, Theriacal. lap. Contrajeru. to be given every third or fourth hour, by spoonfuls, or scruples. These certainly must render the blood hotter and dryer, and totally absorb the remaining moisture. The infallible way to prescribe a remedy to Patients of this nature, is, to obferve that for to cast one into a sweat, you are to emfider the subject, the marter of fiveat, the efficient of sweat, the several causes that hinder, &c. but chiefly the matter of sweat and the efficient. The matter is the superfluous serosity of the blood. The efficient is the spirits, that expel the forefaid ferosity to the circumference. These ewo are nearest causes, without both which

which at the same time no sweat can be procured; for if we have only abundance of spirits, and no abounding moisture, the spirits will be provoked into a greater rage and sorce, and consequently if there be any moisture remaining, they will absorb that, and so quite exsiccate the body; this is that end, which the Fermentators and the Putrid Physitians attain by their Cochleatim cordials.

The indication drawn hence doth direct, that to procure sweat (which as I said before, is a common terminator of malign Fevours) is to moisten the body well with appropriate Juleps or Apozems. Which done, give but two drams of any alexipharmacal water, or five or fix drops of spirit of Hartsh rn rectified, and you shall certainly cause an abundant sweat.

In the next place, consider though there be moisture sufficient, to subminister matter for sweat: (as sometimes there is in malign Fevors) there either may be a defect of spirits, or the spirits may be opprest by the malignity, and in a manner rendred languid, or drowned by moisture too much abounding; then in this case Putrid Physitians do commit a killing error, in forcing the Patient to swallow down their acid Juleps and Apozems.

Apozems. The indication desumed hence doth direct fo subtil cordials, as through their penetrability may infinuate into the most intime effuges of the body, and difintangle the spirits from those malign particles, that oppress them, which done, they will foon expel their malign enemies through the pores by tweat. But fince nothing can illustrate this point more than experience, I will give you a most convincing inftance. I was not long fince called out out of my bed to fee the child of Mr. Harver in Fetter lane end next Holborn, who I was told lay a dying. The child was two years and an half old or almost three. I found the fetcht her breath with great difficulty, her Pulse did beat convulsive, vibrating, and extreamly frequent, as in like cases it usually beateth, some two or three hours before death. She was delirious not knowing any, that were used to be about her, her eyes were very hollow, dim and very flow in motion, her face was pale and cadaverous. I examined how she had been the day before, I was told, that she had a high colour, had been very burning, and was very droughty, and droufic. She - had been ill some four or five days. After I had examined her mouth and belly, I foon

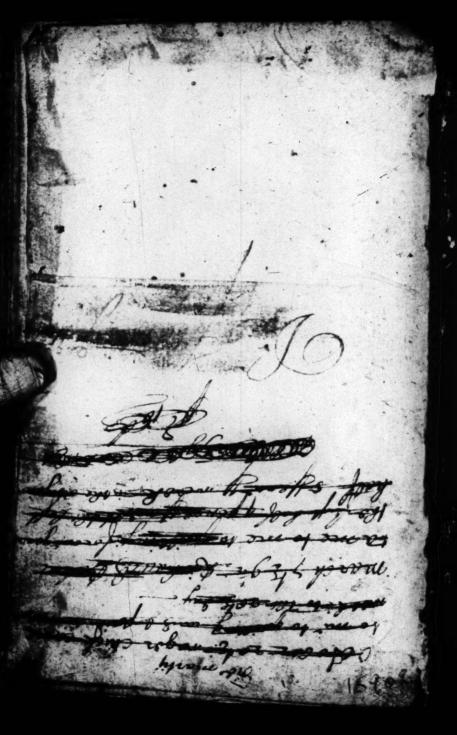
foon understood what it was, viz, a malignant Fevor occasioned by the Small Pox, which nature could not cast forth for want of moisture; for hot cordials she had taken in abundance, almost every half hour, and would undoubtedly have been dead in three hours more had they gone on in that methid. I prescribed four or five drops of re-Etified spirits of Hartshorn with a grain two or three of Bezoard, mineral, and a dram of Aq. Scordii comp. to be given in a large draught of pure posset drink; in lets than two hours the Small Pox appeared, and the was put into a tolerable fiveat, then caufed two Epispasticks to be applied to the Wrists, which had singularly performed their operation. by extracting a great proportion of malignant ferofity. By next morning her fentes were returned, her afpect appeared florid and vivid, her Fevor very much abated, and all her malignant symptoms vanisht, insomuch that within two or three days she was perfectly recovered

Some other observations I must refer to the next opportunity, in the mean time I wish Physicians would prefer experience before their opiniater notions. France Souls









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